
Logiccube® CELLDEK®



CellIDEK User's Manual

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NOTE: Opening the CellDEK faceplate to access the embedded PC will void the warranty.

NOTE: "Hacking" the CellDEK application to access the embedded PC's Operating System will also void the warranty. Logicube can reload the CellDEK application for a substantial fee.

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1. Introduction to CellIDEK

Introduction



Congratulations on your purchase of CellIDEK. This unit will provide many years of dependable service if used properly. It is designed to be utilized by the expert and novice alike.

CellIDEK stands for Cellular Data Extraction Kit. It is designed to carry out data extractions from cell phones, Satellite Navigation Devices, PDA's, SIM cards and flash based media. Data can be extracted from phones and PDA's using three connection methods; data cables, infrared ports or Bluetooth radio frequency communications. The target devices may connect to CellIDEK by one, two or all three of these methods.

The CellIDEK software also helps with easy identification of the target device and informs the user of available connection methods. The user can select the preferred connection method. Historically, data cable connection has been time-consuming as it can be difficult to locate and identify the correct data cable for the target device. CellIDEK eliminates this by using a set of intelligent data cable connectors. Once the target device has been identified, CellIDEK automatically selects the correct data cable connector from the connector rack. This is a fast and reliable data cable connector selection process.

Recommended use of CellIDEK

CellIDEK is a forensically sound mobile phone and PDA data extraction tool, able to obtain real time intelligence from a mobile handset at a scene. It is designed to extract as much information as possible in a forensic manner and disclose any other information which might be present but has not been extracted. It is aimed at getting information immediately from the mobile handset to help move forward an investigation. CellIDEK has been designed with a full audit trail allowing users to demonstrate when actions were taken. The examination is write-protected to ensure that information cannot be written to the handset or media card.

CellIDEK has been tested on a large range of handsets and its capabilities are displayed during the data extraction process. The tests have verified that CellIDEK extracts data reliably. The User should consult this information to ensure that the captured data meets their needs

Users should consider using CellIDEK in an appropriate environment to prevent any messages or calls being received which will change the data on the handset. This can also be considered as interception. The user should consult with their local authorities for recommendations on legal implication of intercepting data in the context of their examinations.

Current Software Version of CellIDEK

As of this writing, the latest software version available on CellIDEK is **1.23.0.5**.

Software updates are available by subscription only. Please contact Logicube Sales or your CellIDEK Distributor to purchase a subscription.

New software features are listed in the CellIDEK activity log every time it is started.

There are several changes to handsets that will result from examination by CellDEK.

If an unread SMS is opened during the examination process, the unread SMS status will change to read on the phone or SIM card. However CellDEK will report the original status of the message.

CellDEK operation will remove the missed call message or symbol from the handset.

Bluetooth acquisitions will leave the extracting device name in the "trusted devices" list in the handset Bluetooth menu.

The extraction of SMS messages can be skipped thus preventing these changes to the data on the handset.

A quarterly hardware and software upgrade package is available by subscription. This will increase the capabilities of CellDEK and ensure CellDEK develops in line with new handsets and technologies

Features

Able to connect to a wide variety of cellular phone, Satellite Navigation, SmartPhones, PDA (Personal Digital Assistant) and Flash Memory devices.

Direct connection via cable, IR (Infrared) or Bluetooth.

Built-in cellular phone identification module.

Water-resistant, rugged carrying case.

Embedded PC with 30GB of storage.

MD5 Hash to ensure that captured data is not tampered with.

Using this guide

This user guide is made up of 6 sections:

Introduction

Getting Started (Fast Start)

Capturing Data

Analyzing Captured Data

Other Features

FAQ's and Troubleshooting Guide

System description

The CellDEK system is packed in a rugged, water-resistant carrying case. Inside, you will find the following components:

Embedded PC built into the case.

A stylus for use with the embedded PC's touch screen.

A set of intelligent data cables, which are able to connect to a variety of cellular phones. These cables are stored in sequential holders built into the case lid.

1 Nokia CA-42 Cable.

Nokia Flash Adapters.

A SIM card adapter.

An AC power adapter that charges the internal battery of CellIDEK .

A Network Isolation Card (NIC), which is used to isolate a target device from the network.

This manual.

NOTE: Opening the CellIDEK faceplate to access the embedded PC will void the warranty.

NOTE: "Hacking" the CellIDEK application to access the embedded PC's Operating System will also void the warranty. Logicube can reload the CellIDEK application for a substantial fee.



Figure 1 – CellIDEK

2. Getting Started

Overview of the CellDEK

Please refer to Figure 2 below.

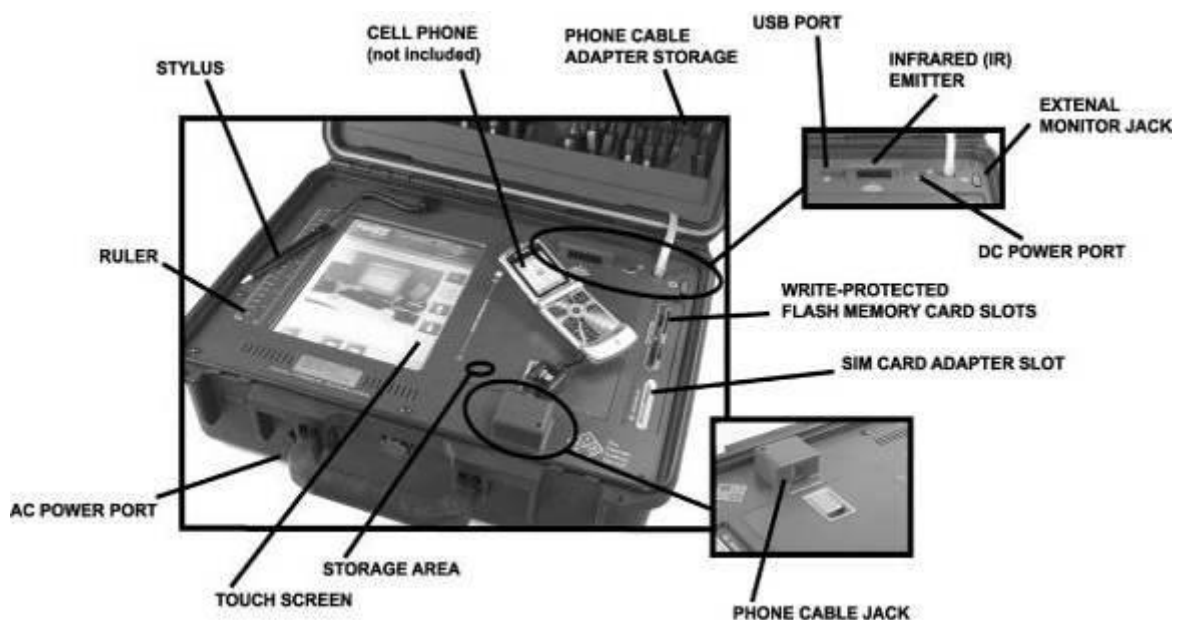


Figure 2 – CellDEK Overview

1. **TOUCH SCREEN** - All of the CellDEK software and user input is controlled from here.
2. **AC POWER SOCKET** – The AC power supply plugs into this socket. The power supply charges the CellDEK battery.
3. **RULER** – This ruler is used to measure the dimensions of a suspect wireless device. It is printed in mm and inches.
4. **STYLUS** – This can be used on the touch screen instead of the user's finger. It is more precise and keeps the display clean.
5. **CELL PHONE** – This is one of many types of cellular phones that can be connected to the

CellIDEK with one of the included adapter cables.

6. **PHONE CABLE ADAPTER STORAGE** – This rack is for cell phone adapter cables that are not currently in use. It is also where the CellIDEK detects the adapter cable prior to a capture.
7. **USB PORT** – This USB port is used to connect an external USB drive for data backup purposes. When used to extract data from a USB drive, the port becomes write protected.
8. **INFRARED (IR) EMITTER** – During an infrared capture, the wireless device's IR port is pointed toward this emitter
9. **EXTERNAL MONITOR JACK** – An external PC monitor can be plugged into this port.
10. **DC POWER PORT** – This is a 12VDC power socket that can be used to power external devices like a jammer, light source, etc.
11. **FLASH MEMORY CARD SLOTS** – These ports work for CF, SD, SM and Memory Stick cards. Additional Flash memory cards of different types can be attached via an adapter. The slots are write-protected.

NOTE: Other flash-based media cards (i.e. transflash cards) can be read in an adapter that connects to one of the existing card reader slots. Such adapters are available in any electronic store.
12. **SIM CARD ADAPTER SLOT** – This port allows users to capture data directly off the SIM or USIM card. A SIM card adapter is provided for this purpose.
13. **PHONE CABLE JACK** – When CellIDEK illuminates the correct adapter; it gets plugged into this slot.
14. **STORAGE AREA** – This compartment can be used to hold extra items, adapters, cables, etc. It also contains a bag with additional adapters that extend the functionality of certain cables and the DKU Nokia cable.

NOTE: The CellIDEK case lid should always remain closed when the unit is charging or not in use.

Setting Up CellDEK

Battery Status

Before CellDEK is powered up for the very first time; it needs to have the battery charged. Attach the AC cable into the AC socket and connect the other end to an AC wall outlet. Make sure that the CellDEK case is closed. Allow CellDEK to charge for 24 hours prior to use.

The CellDEK main application screen displays the battery life of the unit. When the battery has depleted to around 5%, CellDEK will alert the user to carry out a recharge. When the battery level drops below this state, CellDEK will shut down and will not restart correctly until the unit is charged. Figure 3 below shows that the CellDEK battery is about 60% charged:



Figure 3 – Battery Recharge State

Charging CellDEK

CellDEK may be charged with the included AC power supply. The power supply can be plugged into 110 or 230 VAC power.

Normal charge time = 8 Hours – A full charge will give 3 hours of usage.

NOTE: The CellDEK lid should always remain closed when the unit is charging or not in use.

Powering Up CellDEK

CellDEK is designed to boot quickly and with minimal fuss. The procedure is as follows:

1. The power switch only moves vertically and is located next to this symbol.

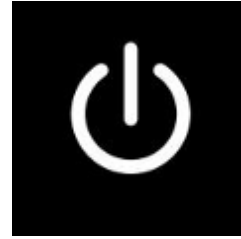


Figure 4 – Power symbol

2. Slide the switch in an upwards direction and let it go. CellIDEK will initialize and boot-up the CellIDEK application.
3. At the login prompt, type **CellIDEK** for the user name and leave the password blank. This is the operator login.

NOTE: The operator login restricts the use of the device operating system solely for use of the CellIDEK application. The operator does not have access to the operating system settings.

NOTE: Accessing the embedded PC's Operating System for purposes other than running the CellIDEK application will void the warranty.

4. A small prompt will appear that asks where CellIDEK is being used. Choose USA for the United States and its territories; otherwise choose UK for the rest of the world.

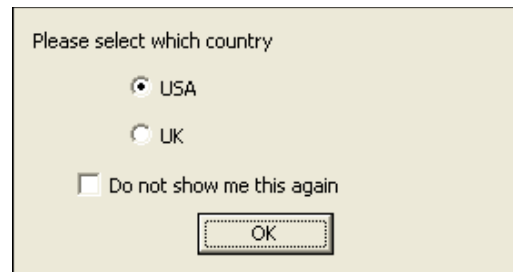


Figure 5 – Country EULA Prompt

5. The EULA (End User License Agreement) will appear.

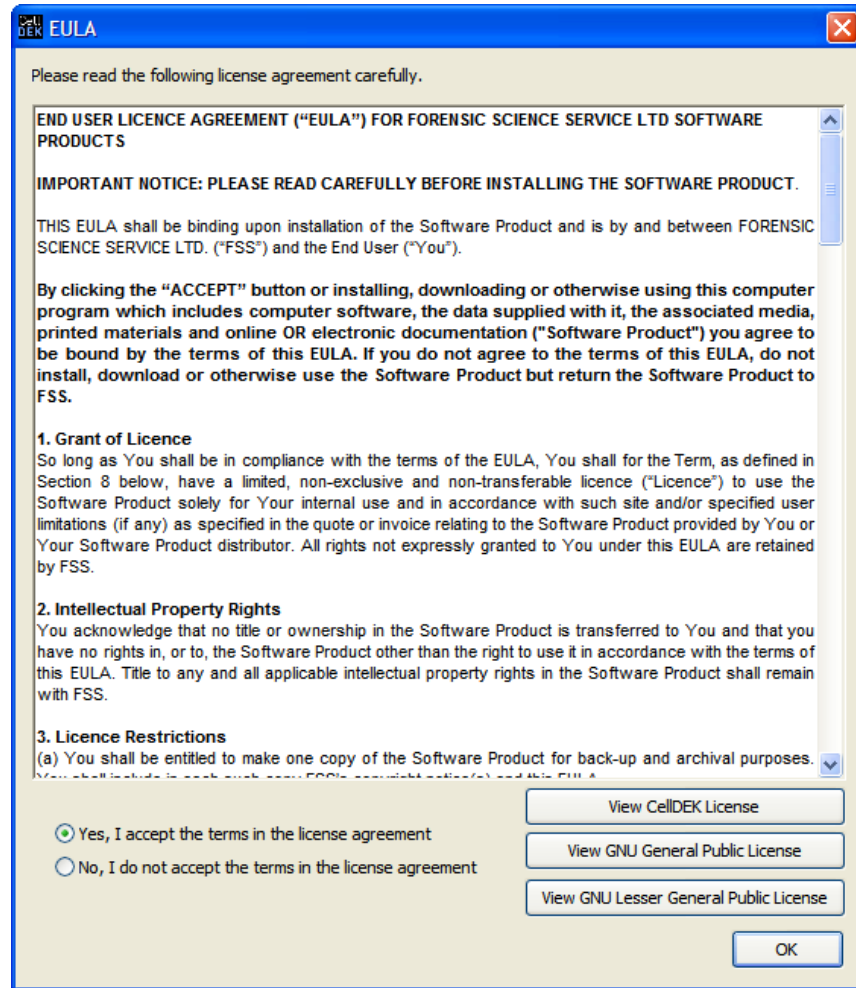


Figure 6 – End User License Agreement

6. CellIDEK will boot to the Main Application Menu.

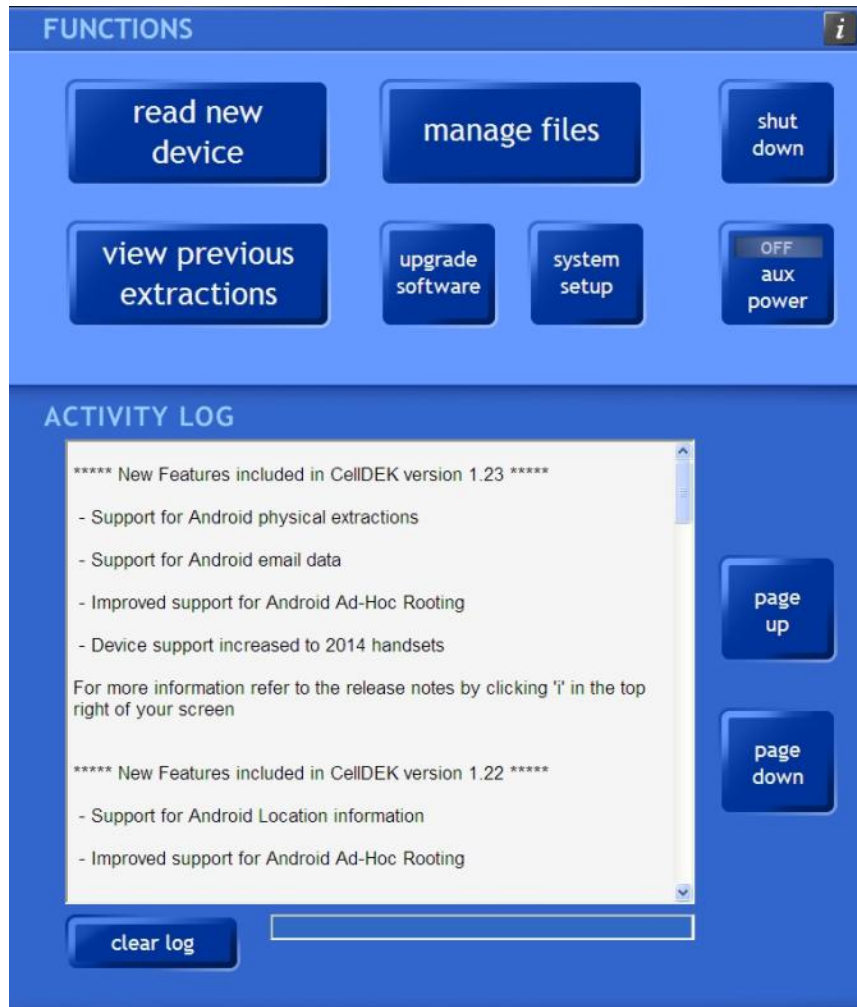


Figure 7 – CellIDEK Main Application Screen

Virus Protection

To enhance the security of the data held on CellIDEK it is recommended that the user installs virus protection software on the unit. The user may install virus protection of their choice through the Windows interface.

Installation

To gain access to the windows desktop from the main CellIDEK application press the following where applicable:

Insert a USB keyboard and press the return key or

On older models: Open the storage compartment and press the target ('bull's-eye' button) located in the top left hand corner of the compartment.

On newer models: Press the screen option buttons 1 and 4 simultaneously which are located at the bottom right corner of the screen.

When on the windows desktop you will need to run 'Shortcut to HideStartBar.exe' located on the desktop (this may be located inside the unused desktop items folder).

The virus software can then be installed using a CD drive or from a USB thumb drive following the providers installation instructions.

Virus Updates

To gain access to the windows desktop from the main CellIDEK application press the following where applicable:

Virus protection software requires regular updates in order to recognize the latest virus threats. The update method can vary but usually requires an update file to be downloaded on an internet PC. This update file can then be copied to the CellIDEK desktop folder and the virus settings can be set to point to the location. When the update option is selected in the virus software, the software will retrieve the file from the desktop folder rather than from the internet. The desktop folder contents can then be updated daily, weekly or when required.

If virus protection software is installed we recommend that the system is monitored for changes in performance to the CellIDEK application. If the system performance is affected it may be necessary to adjust the virus software settings to enable CellIDEK to operate without restriction.

Virus Checker

A virus check option has been included within the system setup menu. The user can now run a malware removal tool to check for virus infection.

Introduction

Computer viruses are very common, easily spread and can be difficult to remove. Viruses can cause damage to computer systems by corrupting

files, changing information and gathering personal data. Generally, virus files can only infect a system if the file is executed. This briefing note has been produced to help identify infection of your CellIDEK unit.

Checking for Infection

The CellIDEK software 1.16 and newer enables the user to run a regular virus check on the system within the system setup screen. On selection, the 'Virus Check' will request for a USB key to be inserted that contains the latest virus removal tool. The selected tool will be copied to memory and can be updated at anytime using the update button.

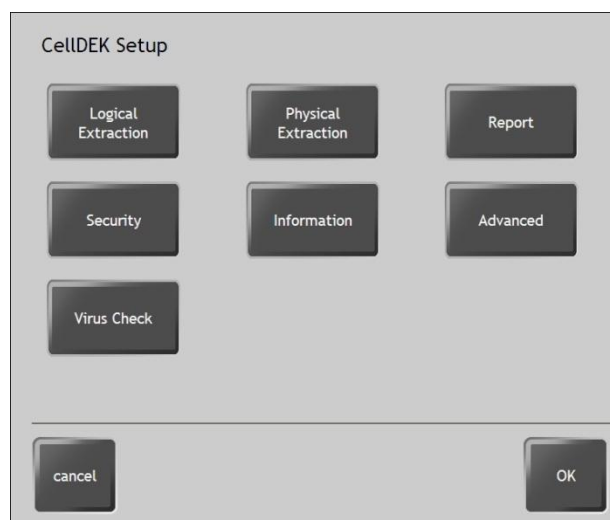


Figure 8 – CellIDEK System Setup Screen

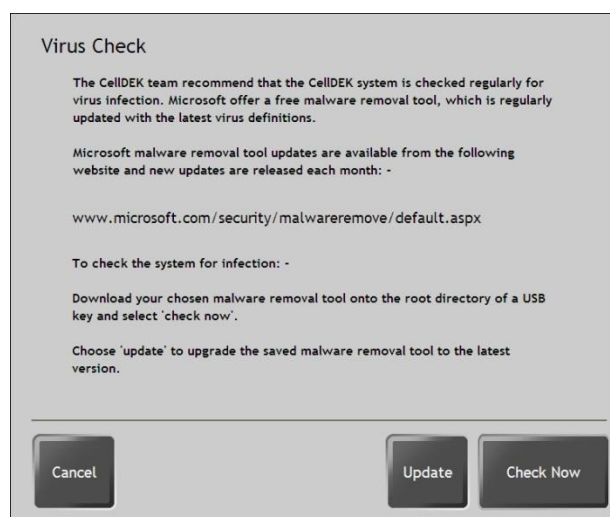


Figure 9 – Virus Check Screen

A suitable free tool produced by Microsoft is listed below. This tool checks for specific, prevalent malicious software and helps remove any infection found. This tool can be downloaded directly from the Microsoft website and is updated with the latest virus definitions on the second Tuesday of each month:

<http://www.microsoft.com/security/malwareremove/default.aspx>

Please note that this tool may not remove all known viruses. Other antivirus software may be required to remove specific viruses or malware not covered by this tool. Instructions on how to install antivirus programs through the Windows interface within CellIDEK can be found in the CellIDEK Users' Guide.

Note: The Microsoft Windows Malicious Software Removal Tool is a single .exe file that is used to locate and remove an infection only. It will not install on the CellIDEK system and will not actively protect the CellIDEK from further infection.

IMPORTANT: Other virus checking tools that have not been tested by the CellIDEK team are available. Please proceed with caution when using untested software. If the system performance is affected it may be necessary to adjust the virus software settings or remove entirely to enable CellIDEK to operate without restriction. Logicube is not liable for damages or lost files when using untested software.

Windows Malicious Software Removal Tool Screen Shots

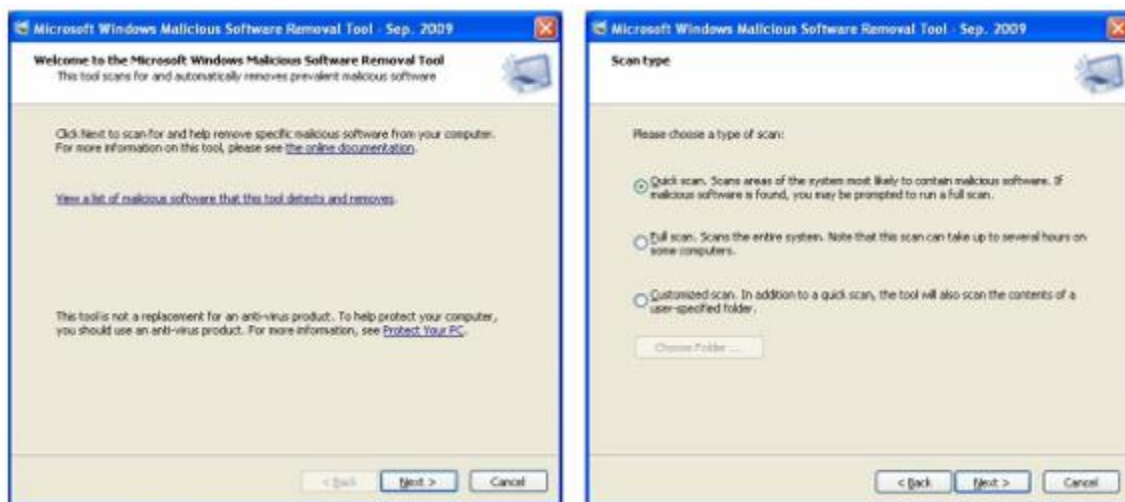


Figure 10 – Windows Malicious Software Removal Tool

To prevent changes to the evidential data content in the data files folder the user can select a custom scan and choose to scan system folders only*.

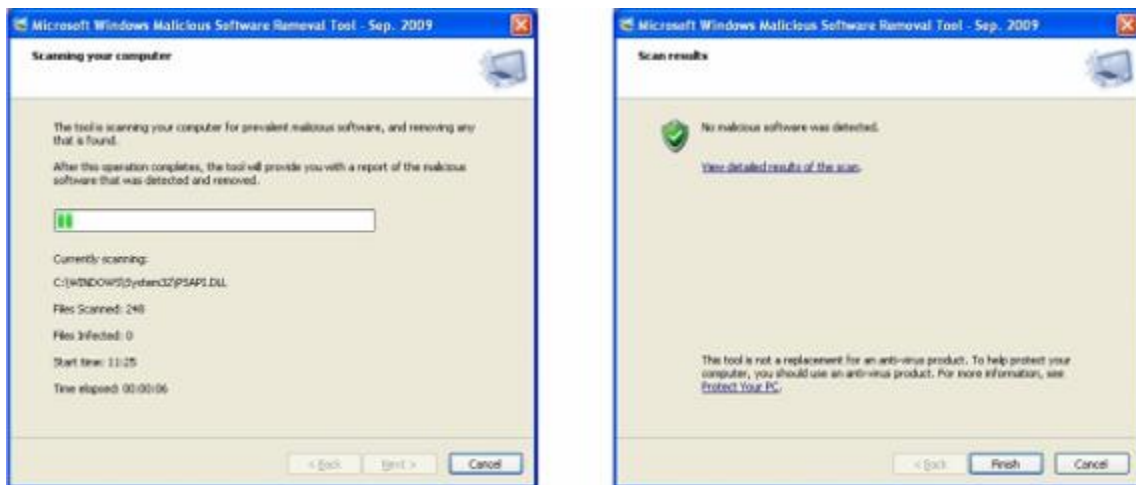


Figure 11 – Windows Malicious Software Removal Tool cont'd.

**Carrying out a full or quick scan may result in files that have been identified by the Microsoft Windows Malicious Software Removal Tool as 'malicious', to be removed from the CellDEK system. To protect evidential files you may wish to isolate the data files folder from the scan by selecting the customized option*

Data Files folder location: C://Program Files/FSS/CellDEK/Data Files

Note: Any files identified as 'malicious' that are removed from the data files folder during the scan will remain listed as downloaded in the CellDEK report.

CellDEK Operation



Figure 12 – Using the CellDEK stylus

The CellIDEK is operated via a touch screen interface. A stylus is included and is stored in a holder located directly above the touch screen.

NOTE: The CellIDEK lid should always remain closed when the unit is charging or not in use.

Touch Screen Calibration

The touch screen on the CellIDEK can be calibrated. There are two sets of instructions that can be followed to perform a touch screen calibration depending on the CellIDEK you have.

1. Asus tablet – CellIDEKs that have the power switch on the bottom right hand corner of the display.
2. Fujitsu tablet - CellIDEKs that have power switch on the top right hand corner of the display.
3. Panasonic tablet - CellIDEKs that require you to open the storage area to turn the power on.

Calibrating the Asus model

1. Turn the CellIDEK.
2. On the Windows Log On screen, tap **OK** to log on to Windows.
3. The End User License Agreement should appear. Do not do anything to the License Agreement. Do not close it. Do not click OK.
4. On the Windows desktop, double-tap the **Hide StartBar** icon. If you cannot locate it on the desktop, look for a folder called “Unused Icons”. Double-tap that folder and see if the Hide StartBar icon is there. After double-tapping the Hide StartBar, the Windows Start button should appear on the bottom left of the screen.
5. Tap the Windows Start button.
6. Locate and tap **Touch Panel Tool** on the left side. If this cannot be found, tap **All Programs** then the **Touch Panel Tool** folder. In that folder, you will find the program called **Touch Panel Tool**.
7. The Touch Panel Tool window will appear.

NOTE: The Touch Panel Tool window may appear behind the End User License Agreement (EULA) window. If

this happens, tap the Touch Panel Tool window to bring it in front of the EULA.

8. In the **Calibration** section, make sure **9 Points** is selected.
9. Tap the **Calibration** button. The calibration screen will appear.
10. Tap the blinking symbol until it beeps or stops blinking. There will be a total of 9 symbols to tap.
11. After the 9th symbol, the calibration screen will close and you will see the **Touch Panel Tool** window.
12. Tap the **Hide** button to hide the Touch Panel Tool window.
13. Accept the End User License Agreement to load the CellDEK software.

Calibrating the Fujitsu model

1. Turn the CellDEK on.
2. On the Windows Log On screen, tap **OK** to log on to Windows.
3. The End User License Agreement should appear. Do not do anything to the License Agreement. Do not close it. Do not click OK.
4. Double-tap the **Hide StartBar** icon. If you cannot locate it on the desktop, look for a folder called "Unused Icons". Double-tap that folder and see if the Hide StartBar icon is there. After double-tapping the Hide StartBar, the Windows Start button should appear on the bottom left of the screen.
5. Tap the **Start** button.
6. Tap Control Panel.
7. In the Control Panel, double-tap **Tablet Calibration**.
8. Follow the instructions on the screen, touching the red + marks. There will be 9 of them (3 rows (top, middle, and bottom) and 3 columns (left, middle, and right)).
9. When you are done with the 9th mark, a pop will appear "Calibration is succeeded. Settings change is effective after system restart".
10. Tap **OK**, and close Control Panel window.

11. Re-start system in order for settings to take effect. Start, Shut Down.
12. Once re-started tap **OK** on Windows log in.
13. Tap **OK** on the End User License Agreement to load the CellDEK software.

Calibrating the Panasonic model

Note: The steps below require a USB keyboard.

1. Turn the CellDEK on.
2. On the Windows Log On screen, tap **OK** to log on to Windows.
3. The End User License Agreement should appear. Do not do anything to the License Agreement. Do not close it. Do not click OK.
4. Attach the USB keyboard to the USB port.
5. Double-tap the **Hide StartBar** icon. If you cannot locate it on the desktop, look for a folder called "Unused Icons". Double-tap that folder and see if the Hide StartBar icon is there. After double-tapping the Hide StartBar, the Windows Start button should appear on the bottom left of the screen.
6. Tap the **Start** button.
7. Tap **Control Panel**.
8. In the Control Panel, double-tap **Mouse**.
9. In the Mouse Properties window, tap the **TouchScreen** tab.
10. In the Calibration & Test section, tap the **Calibration** button. The screen should go into calibration mode.
11. Follow the instructions on the screen, touching the red + marks. There will be 9 of them (3 rows (top, middle, and bottom) and 3 columns (left, middle, and right)).
12. When you are done with the 9th mark, the mark will go back to the top left. At this point, press the Enter key on the keyboard and it will bring you back to the Mouse Properties window.
13. Tap OK to close the Mouse Properties window and close the Control Panel window.
14. Tap OK on the End User License Agreement to load the CellDEK software.

Identifying a Target Device

Target devices can be difficult to identify. Many show the manufacturer's name or logo, but not the model name or number. This information is usually displayed behind the battery of the target device. To view the label, the target device would be powered down and the battery removed.

On power-up a PIN or PUK number may be required to unlock the target device. This number can be obtained from the device's network service provider by authorized law enforcement personnel.

Identification of the target device is required to determine which connection methods are available (e.g. cable, infrared or Bluetooth) and for data cables, the specific cable connector.

Attaching a Cellular Phone

Begin by tapping the **Read New Device** button on the Main Application Screen. The Device Type Selection screen will appear.

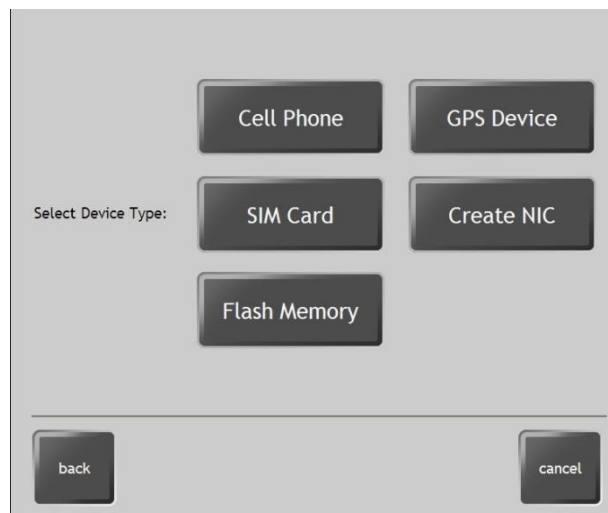


Figure 13a – Device Type Selection

Tap the **Cell Phone** button. The next screen prompts the user to choose either logical or physical extraction.

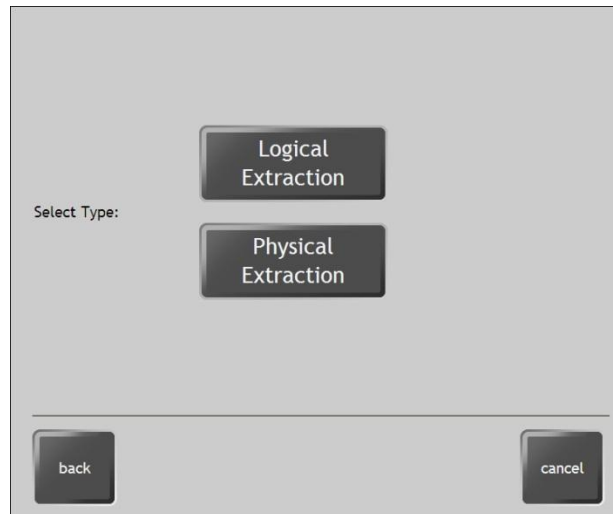


Figure 13b – Extraction Type

Select Logical Extraction for most phones. Physical Extraction is available for Android devices and the Nokia 1100 only.

Physical Extraction

If Physical Extraction is selected, the following screen will appear:

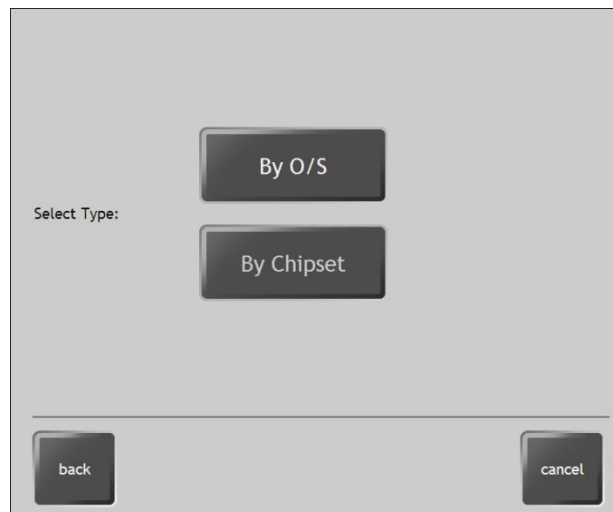


Figure 13c – O/S or Chipset screen

Select **By O/S**. This is the only option that is selectable. 'By Chipset' is only available with the Logicube CellXtract-TNT. Visit <http://www.logicube.com/shop/cellxtract-tnt/> for more information on the CellXtract-TNT.



Figure 13d – O/S Type

Select either Android O/S or Nokia 1100. If Android O/S is selected, follow the on-screen instructions on an Android O/S physical extraction.

Logical Extraction

If Logical Extraction is selected, the manufacturer list will appear. If the manufacturer is unknown, the search is carried out on all manufacturers.

For a given manufacturer, CellIDEK helps to identify the target cellular phone as follows:

- Selection from a model list

- Selection from model images

- Selection from a “short list” of model images based on entered dimensions.



Figure 14 – Cell Phone Manufacturer

Once the manufacturer is chosen, the Cell Phone Selection Screen will appear.

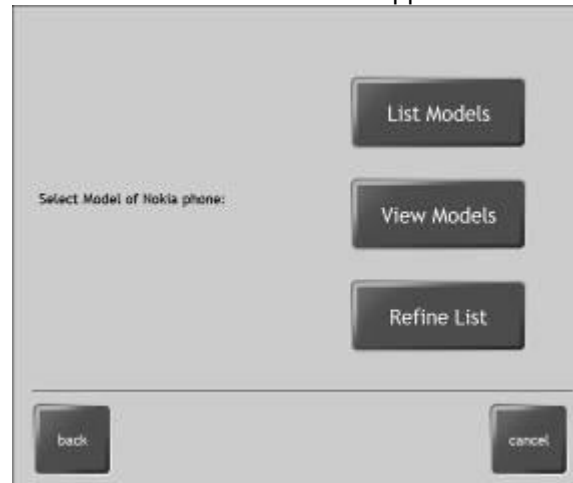


Figure 15 – Cell Phone Selection

If the user knows the model of the cell phone, then the **List Models** option should be selected. A list will come up of all known models.

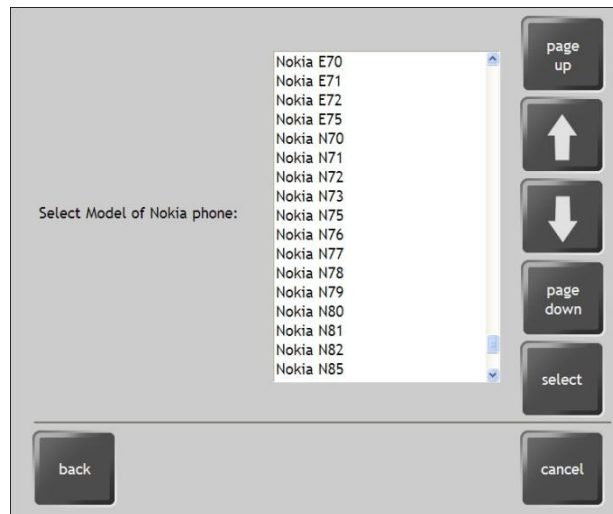


Figure 16 – Cell Phone Model List

Scroll down the list and select the model number of the cell phone.

If the model is unknown, images of all models for the chosen manufacturer are obtained by selecting **View Models**.



Figure 17 – Cell Phone Models

NOTE: Fully verified and supported handsets are indicated by green “check marks”. Handsets that are not supported but are expected to work are indicated by amber check marks. Unverified handsets have no check mark; so treat extractions from these handsets as a minimum data extraction.

NOTE: Some handsets can use a Network Isolation card (NIC) during capture. This feature is further explained in the **Network Isolation Card (NIC)** section later in this chapter.

Scroll down the list and choose the image that looks like the target cell phone.

You may be faced with a large list of cell phones. To narrow down the search, tap the **Back** button.

Select **Refine List**. The user has the option to apply two filters. The user can choose to apply either or both of these filters.

The first will narrow down the images shown using physical features of the phone (e.g. Does the phone have an antenna or camera and what type of phone is it? Clamshell, swivel, slide or bar).

The second or Input Dimensions filter is used to enter the physical dimensions of the target device (length, width, depth) using mm or inches. CellIDEK TEK will display the models matching those dimensions or features (within a given tolerance and depending on which filter is used).

Figure 18a – Enter Features

Figure 18b – Enter Dimensions

NOTE: There is a measuring ruler printed on the CellIDEK TEK in inches and mm.

NOTE: This screen will allow the user to enter the dimensions in mm, 1/8 inch or 1/16 inch increments.

Tap the Up and Down Arrows to change each filter.
If the handset does not have one of the features, such as a camera, set the filter to “Ignore”.

When finished, tap the **Display Phones** button.
CellIDEK will display models matching those features.

Tap the model number or image to highlight it, and then tap the Select button. Refer to the “**Connection Options**” section later in this chapter.

Generic Extraction Module

If the **Other** Button is chosen on the Cellphone Extraction Screen, the Generic Extraction Module appears. This is used to extract from handsets that have not been identified or verified with CellIDEK. This includes handsets where data could not be obtained from the known manufacturers as well as from unknown manufacturers.

The time taken for data extraction can take up to 30 minutes, depending on the amount of data.

The Generic Extraction Module only supports Bluetooth and Infrared connections.

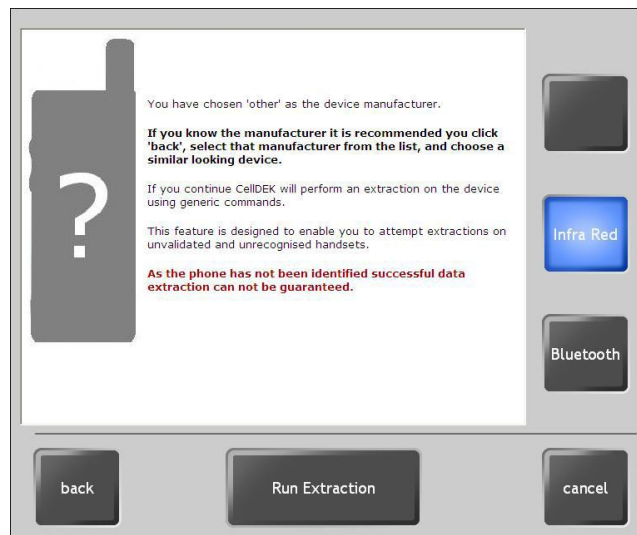


Figure 19 – Generic Extraction Module

NOTE: Users should be aware that data extracted with the Generic Extraction Module is NOT validated. It is recommended that any data extracted using this method is visually verified by the User to ensure that no data is missed or misrepresented.

Attaching a PDA

1. Begin by tapping the **Read New Device** button on the Main Application Screen. The Device Type Selection screen will appear.

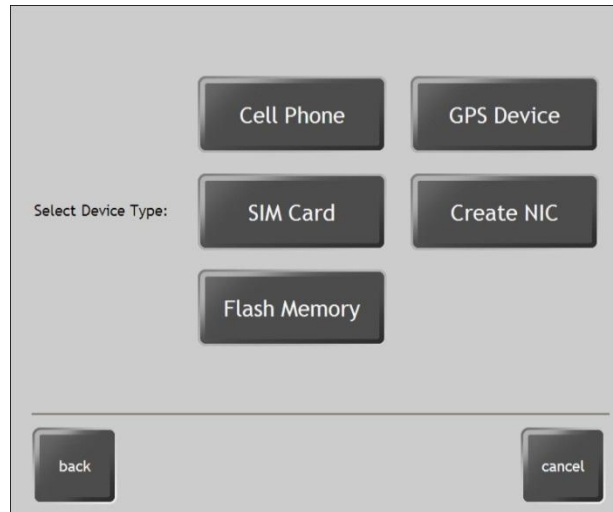


Figure 20 – Device Type Selection

Tap the “Cell Phone” button. The list of handsets and Operating Systems will appear. Select the proper Operating System (Android, Blackberry, Palm OS, or Windows Mobile).



Figure 21 – Select PDA Type

Palm-based PDA's are supported by software version 1.9.0.0. and higher with the following caveats:

Extraction of SMS messages is currently not supported.

Extraction of user files is currently not supported.

CellIDEK is able to collect the following information from Palm devices: Contact Details, Call Logs (if available), Calendars, Tasks, Notes and Palm Database (PDB) files. PDB files are

where Palm OS keeps data stored in RAM. The data is kept in database format. These files can contain user data.

Windows-based PDA's need to have Active Sync enabled before they can be set to Infrared mode. Please refer to the "**Connecting via Infrared**" section later in this chapter.

Blackberry devices can only connect via Cable. Please refer to the "**Cable Connection**" section later in this chapter.

NOTE: Blackberry devices that are password-protected will need to be unlocked before data can be extracted. Please refer to the "**Unlocking a Blackberry Device**" section later in this chapter.

Most PDA's will need to connect to CellDEK via Bluetooth instead of the other way around. Please refer to the "**Connecting via Bluetooth**" section later in this chapter.

Additional Cable Support for PDA's:

A set of 5 new PDA cable tips and a USB cable are available from:

<http://www.gomadic.com/celldek.html>

These tips will enable the User to connect to a number of PDAs that are not supported by the current CellDEK cables. However, it must be noted that, although many of these PDAs are already supported by CellDEK via Infrared, an extraction using a cable will provide a faster extraction. Appendix C lists the 150 PDAs that are supported by these cable tips.

Each **tip** can be placed into the **female receptacle** thus allowing a large range of tips to be connected to the same USB cable.



Figure 22 – Additional Cable Support

SIM Card Extraction

NOTE: CellIDEK supports, with software release 1.20.0.0, the ability to clone an existing SIM card. This and other features using the Network Isolation Card (NIC) are described in detail in the Network Isolation (NIC) Cards section on p. 56.

SIM Card extraction supports both SIM and USIM cards.

1. Begin by tapping the **Read New Device** button on the Main Application Screen. The Device Type Selection screen will appear.

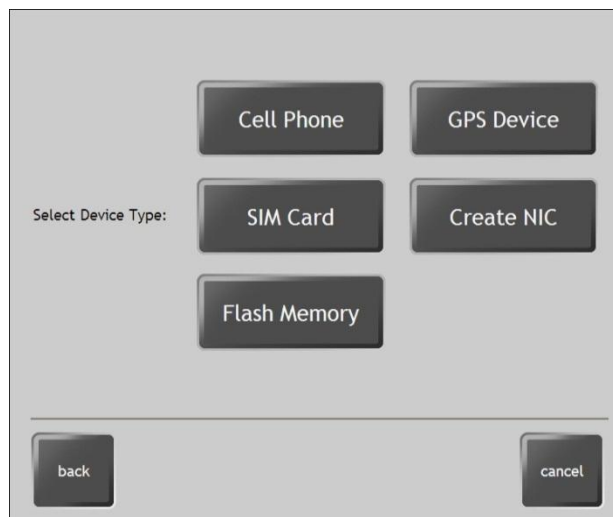


Figure 23 – Device Type Selection

Tap the **SIM Card** button.

Remove the SIM Card from the target cell phone. It is usually located underneath the battery.



Figure 24 – Removing SIM card from cell phone

Slide the SIM card into the adapter with the gold contacts facing out.

Place the adapter in the SIM card reader, which is located on the right hand side of the control panel.

As the card is read, the green LED light will behave in one of two ways:

On older CellIDEK units, the LED will constantly stay lit, and blink when the SIM is accessed.

On newer CellIDEK units, the LED stays off, then blinks when the SIM is accessed.



Figure 25 – Inserting SIM Card in Slot



Figure 26 – SIM Card in Slot

SIM PIN and PUK Codes

CellIDEK enables an investigator to unlock SIM cards via the PIN code and the PUK code, if they are known.

When CellIDEK is used to unlock a SIM card via the PIN code it does not relock the card afterwards.

When unlocking the SIM card via the PUK code CellIDEK will reset the PIN number to “0000”. To enable the feature to enter the PUK code, the PIN code needs to be entered incorrectly several times. The PIN-input screen displays the number of attempts remaining before the PUK code is required.

Dual SIM Extracted Data

Dual SIM handsets can contain two SIM cards; however the handsets are fully operational with only one SIM. Dual SIM handsets will have the following data:

- 2 IMEI Numbers
- Up to 2 IMSI Numbers
- Up to two lots of SIM Contacts
- Up to two lots of SIM Messages

These handsets make use of two SIM card slots and are referred to as Slot 1 and Slot 2. Either slot can be used if only one SIM card is present.

There are a number of ways the user can switch between SIM cards including a software menu option or a hardware button.

The handsets also have the functionality to set which SIM card is initially used on start-up irrespective of the Slot it is in. Therefore the SIM card in Slot 2 can be set to be used before that in Slot 1.

The SIM cards will be referred to as Primary SIM and Secondary SIM, where the Primary SIM is the one set to be used first.

The following data has been tested and can be extracted from these handsets:

IMEI – Each Dual SIM handset has two IMEI numbers, one for each SIM card Slot. The IMEI numbers are associated to the SIM card slots on the handset NOT the SIM Cards. CellIDEK will only extract the IMEI number of Slot 1 regardless of how many SIM cards are present or which card is set as the Primary SIM.

IMSI – Each Dual SIM handset can have up to two IMSI numbers, one for each SIM card inserted. CellIDEK will only extract the IMSI of the Primary SIM card, regardless of which slot it is inserted into.

SIM Contacts – Dual SIM handsets can store contacts to either SIM card. CellIDEK can retrieve contacts from both SIM cards and identify which card they were stored on. Contacts stored on the Primary SIM will be labelled “[Primary SIM]”. Contacts stored on the Secondary SIM will be labelled “[Secondary SIM]”.

SMS Messages – Dual SIM handsets can store SMS messages on either SIM card. CellIDEK will only extract messages stored on the Primary SIM card, regardless of which slot it is inserted into. CellIDEK will extract all handset SMS messages but cannot determine which SIM card they were sent to/from, this can be determined by viewing the SMS on the handset.

Call Logs – Dual SIM handsets store all call logs on the handset and can be dialled or received from either SIM card. CellIDEK will extract all call log entries but cannot determine which SIM card was used to dial or receive the call, this can be determined by viewing the call logs on the handset. Any LDN's stored on the SIM cards will not be extracted, a separate SIM card extraction will obtain this data.

NIC Card Functionality – Where NIC card support is verified, a NIC card will need to be created for each SIM card used in a Dual SIM handset. The NIC card will need to be returned to the same Slot from which the SIM card taken from. Placing a NIC card in the wrong slot will result in a loss of data.

NOTE: A separate extraction should always be performed on all SIM cards.

Attaching a Memory Flash Card

The Memory Card Reader is also located on the right hand side of the control panel. The CellIDEK software application does not allow data to be written to the Memory Card Reader slots.

IMPORTANT NOTE: CellIDEK can only support Memory Cards up to 2GB in size and will not work with SDHC cards. Users may attach a card reader that can read larger flash media such as SDHC to the USB port on the CellIDEK.

1. Begin by tapping the **Read New Device** button on the Main Application Screen. The Device Type Selection screen will appear.

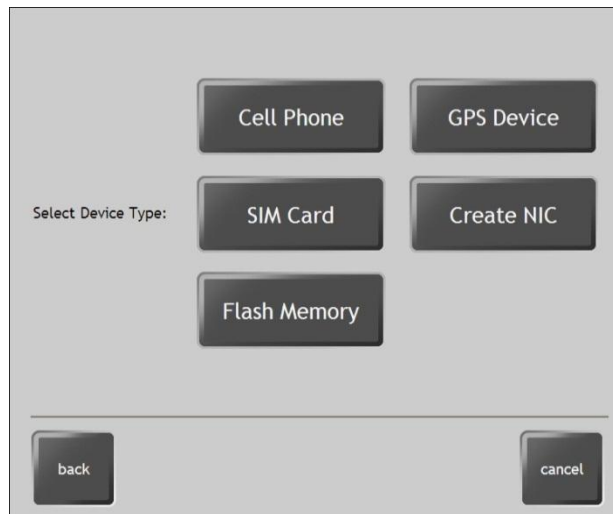


Figure 27 – Device Type Selection

Tap the **Flash Memory** button. The next screen will prompt the user to choose the correct memory card.



Figure 28 – Memory Card Selection Screen

Once the correct Memory Card image is selected, the next screen will prompt the user to insert the card in the indicated slot.

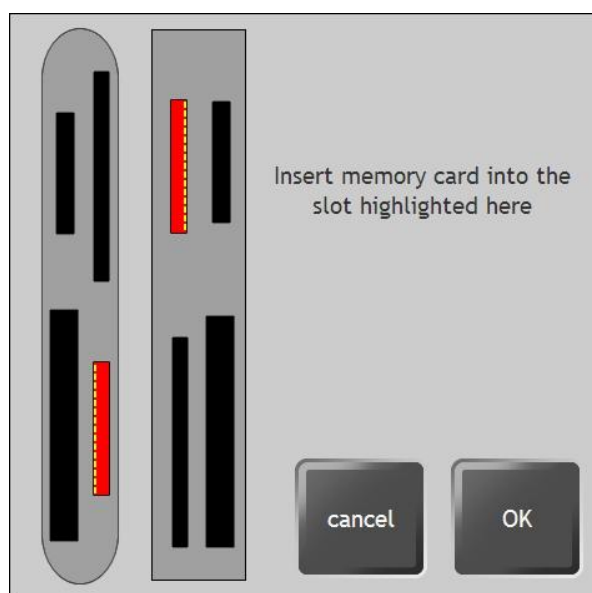


Figure 29 – Orientation Guide

Place the card into the correct slot of the reader as indicated by the on screen graphics.



Figure 30 – CF Memory Card in Slot

NOTE: If the suspect Memory Card is not represented on the Selection Screen, a card adapter may be required. (e.g. Transflash, Mini SD, Memory Stick Duo, etc.)

Imaging Flash Media

After capturing data, CellIDEK will ask the user if it should perform a complete image capture of the flash memory card. If the user chooses to do this, CellIDEK will run the following procedure:

1. CellIDEK will make a sector-by-sector copy of the entire flash media drive.
2. The copy will be stored as an image file in the “_resource” folder of the extraction directory.
3. CellIDEK will then scan the image file for the following types of JPEG files:
 - Extant JPEG: Normal, readable JPEG files.
 - Deleted JPEG
 - Embedded JPEG: JPEG files embedded in emails or other files.
4. Any found JPEG files will be displayed by CellIDEK in the Extended Data screen.
5. The image file can be copied to a thumb drive and investigated further with hex-editing or forensic software.

NOTE: CellIDEK cannot distinguish between Extant, deleted or embedded JPEG files. The image file should be further investigated to determine the status of any found files, and whether similar files exist in other formats.

Attaching a GPS Device

1. Begin by tapping the **Read New Device** button on the Main Application Screen. The Device Type Selection screen will appear.

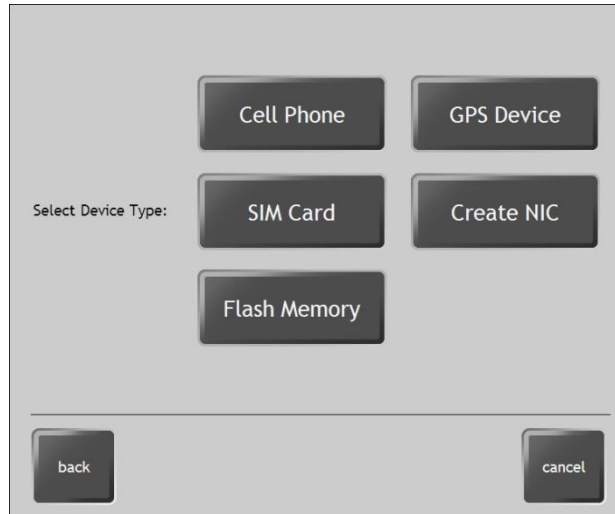


Figure 31 – Device Type Selection

Tap the **GPS Device** button. The next screen prompts the user to choose the type of GPS.

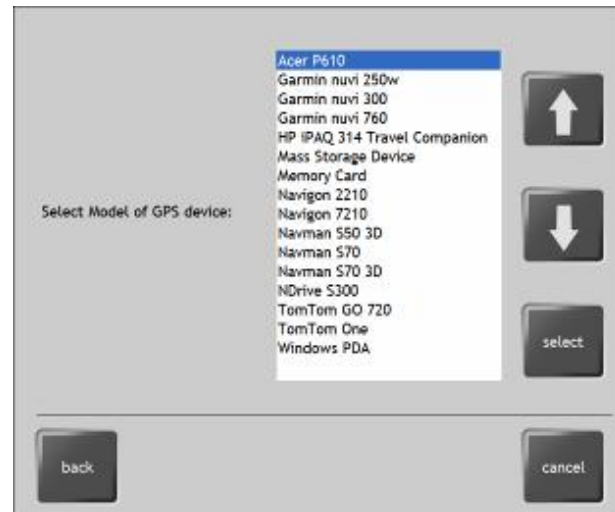


Figure 32 – Select GPS Type

If a TomTom GO 720 is to be selected, choose "TomTom GO 720". After capture, you will get an opportunity to capture the memory card separately.

If present, remove the memory card from the GPS device. This will be captured later.

WARNING: ALWAYS remove the Memory Card from a TomTom device prior to capture.

NOTE: TomTom can store the same information in the device and on the Memory Card. For that reason, the device and card may contain different sets of the same type of data (i.e. application info, favorite destinations, etc.)

Connect Cable 9 to the GPS Device and follow the prompts to extract data. The following information can be extracted from the supported TomTom Devices:

Device information

Manufacturer, Model, Serial Number

Owner information

Owner's Name, Owner's Street, Owner's Town, Owner's City

GPS location information

'Home' address with GPS coordinate,
'Favorite' addresses with GPS coordinates,
'Destination' addresses with GPS coordinates,
'Recent' addresses with GPS coordinate,
'Miscellaneous' addresses with GPS coordinates

Telecommunication information *

Telephone contact information stored on TomTom,
Telephone numbers called via the TomTom,
Telephone numbers of calls received via the TomTom, SMS messages received via the TomTom, SMS messages sent via the TomTom

Files *

MP3 files, JPEG files

*Only on supported devices.

The following information can be extracted from Garmin devices: manufacturer, model, serial number, "favorite" addresses with GPS coordinates.

14. After the GPS Device is extracted, press "Memory Card" on the screen that appears. Follow the directions for Connecting a Memory Flash Card earlier in this chapter.

15. The following information can be extracted from HP satellite navigation devices

GPS location information

'Favorite' addresses with GPS coordinates,
Route 'Waypoint' addresses with GPS coordinates.
'Search History' addresses with GPS coordinates.

Telecommunication information

Contact information.

Call Registers.

Files

User files can also be retrieved from the device by performing a separate Flash Media extraction.

Generic GPS Extraction

CellIDEK can now search certain devices for GPS data generated by any of the following GPS Software:

- CoPilot 6
- Garmin
- Navman Smart ST
- NavNGo
- NDrive
- TomTom

The data files generated by this software can be stored on devices without any GPS software installed. This data can still be extracted using CellIDEK.

Devices which GPS Data can be extracted from are:

1. Sat-Nav GPS Devices
2. Windows Mobile Devices
3. Flash Media Cards
4. Mass Storage Devices

NOTE: GPS Devices can be used to store data generated from other devices. Therefore, care must be taken when linking data to a specific device.

The following GPS Data can be extracted:

5. 'Favourite Locations' - These are a list of addresses and/or coordinates which a user has chosen to store on the device. They can contain Home and Work locations.
6. 'Recent Destinations' – These are a list of previous destinations the owner has selected to navigate to.
7. 'Route Waypoint Data' – These are a list of addresses and/or coordinates which form set locations along a route that the user has created.
8. 'History' - This is a list of addresses and/or coordinates that the owner has previously searched for or viewed. This list may also contain Favourite and Route Waypoint

Locations. This list differs from Recent Destinations in that the owner may not have selected to navigate to the location.

NOTE: The presence of any of the above data on a device does not indicate that the owner has been to that location. Only that the owner chose to view and/or save that location on the device.

CellIDEK will also extract Telecommunications data from some Sat-Nav GPS Devices.

The following Telecommunications data can be extracted:

- Contact information
- Telephone numbers called via the GPS Device
- Telephone numbers of calls received via the GPS Device
- SMS sent and received via the GPS device

This information is extracted from the data files created by the above software only. Mobile communication devices may have a separate store for this information.

NOTE: It is recommended that a separate PDA extraction be performed on all WinMobile devices to obtain Telecommunication Data

GPS Track Logs

CellIDEK can extract GPS track logs from devices manufactured by:

- Garmin
- Navman
- HP

Track logs record the GPS coordinates of the device every 1-2 seconds giving an accurate description of where the device has been and when.

The CellIDEK report shows only the start point of each stored track log, as each track can potentially store thousands of points.

Track log data is best viewed by importing the GPSPData.gpx into Google Earth.

NOTE: Some devices start logging as soon as they are turned on, however other devices

require the user to initiate logging to record track log data.

Opening GPSTData.gpx Output Files in Google Earth

CellIDEK generates an additional data file when extracting GPS Data. This file contains GPS data and can be imported into Google Earth to display the data.

The data file GPSTData.gpx is created within the extraction folder automatically when a GPS extraction is performed.

The data file stores all waypoints, routes and track log data in a format which can be used by Google Earth to display all of the GPS data in the report.

NOTE: Google Earth 5.0 will need to be installed on a PC to view the GPSTData.gpx file. This can be downloaded from: <http://earth.google.com>

Open Google Earth and tap the File menu.

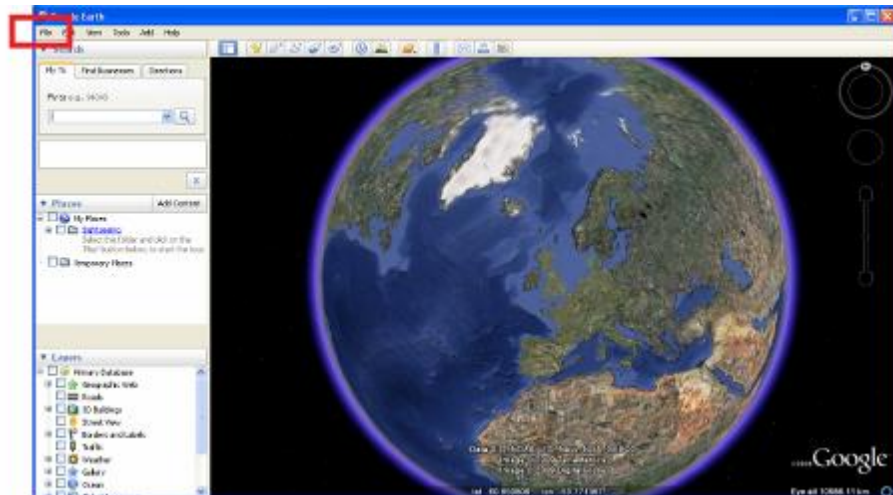


Figure 33a

Then select Open.

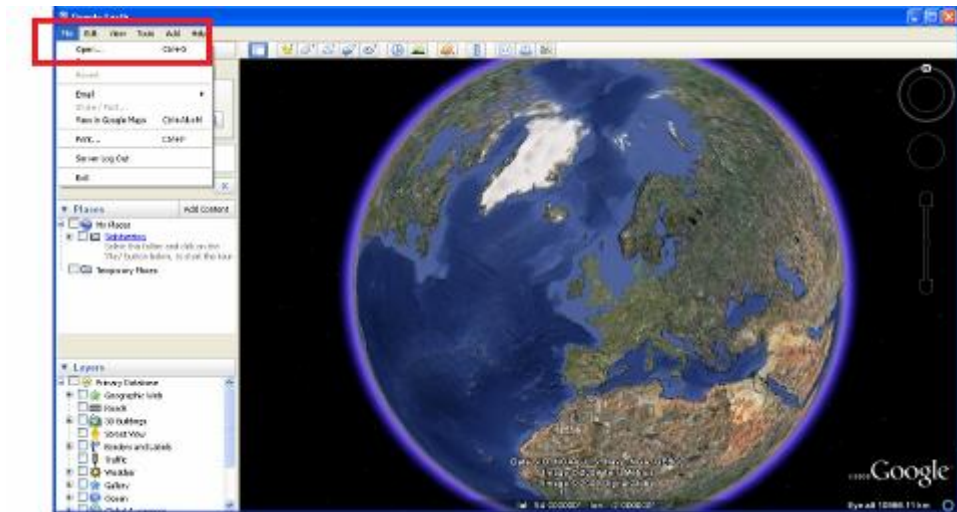


Figure 33b

Navigate to the location where the extracted data files are stored.

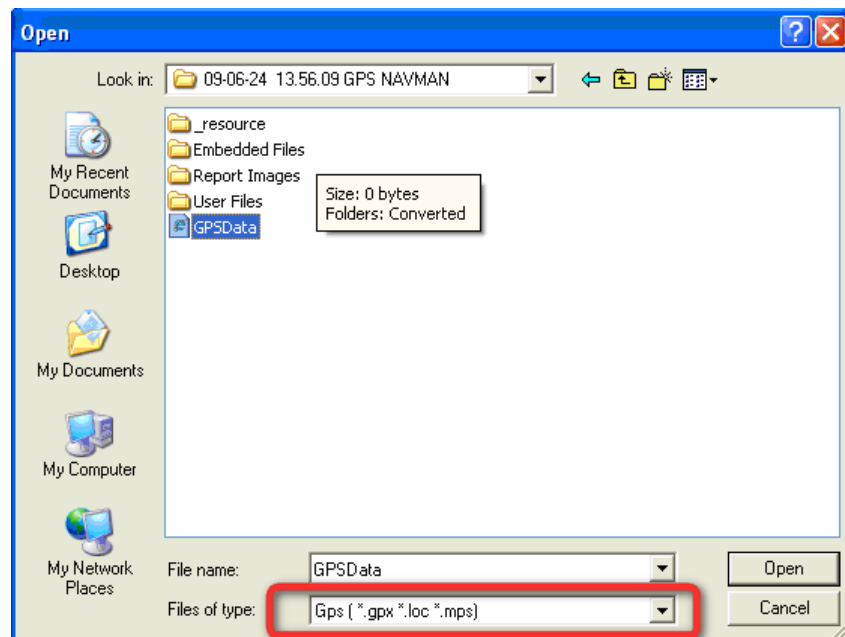
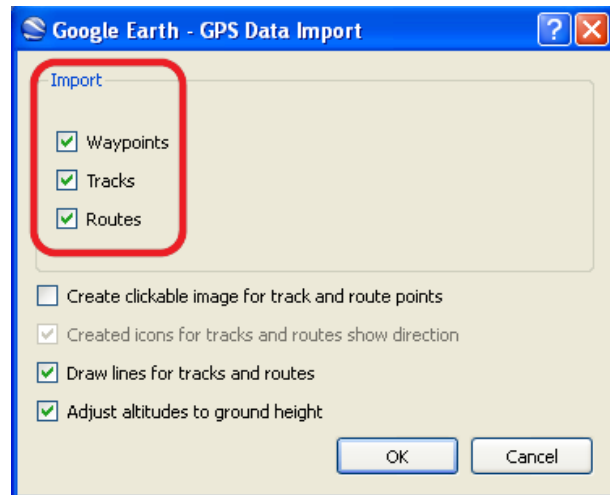


Figure 33c

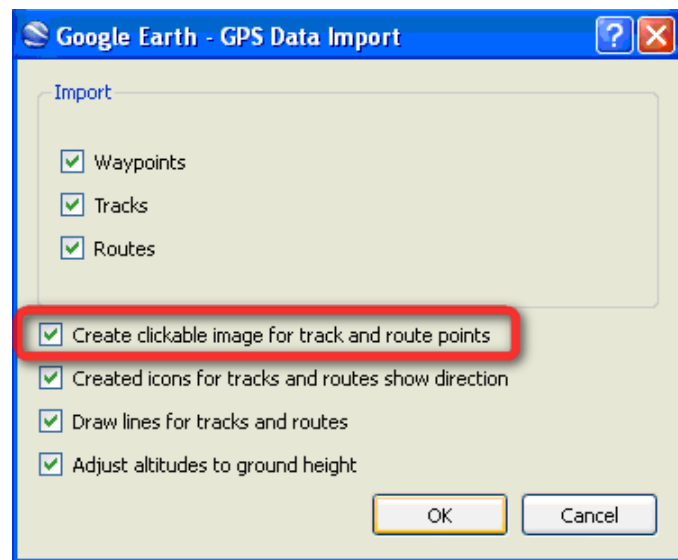
In the Files of type drop down box select Gps (*.gpx *.loc *.mps) and then select the GPSData file and tap open.

Alternatively you can drag the GPSData.gpx file into Google Earth

The GPS Data Import window appears allowing you to choose what types of data you want to import.

**Figure 33d**

To display all GPS fixes along a saved track log make sure you check the Create clickable image for track and route points.

**Figure 33e**

The data is then displayed on the map and can be selected using the Places navigation panel.

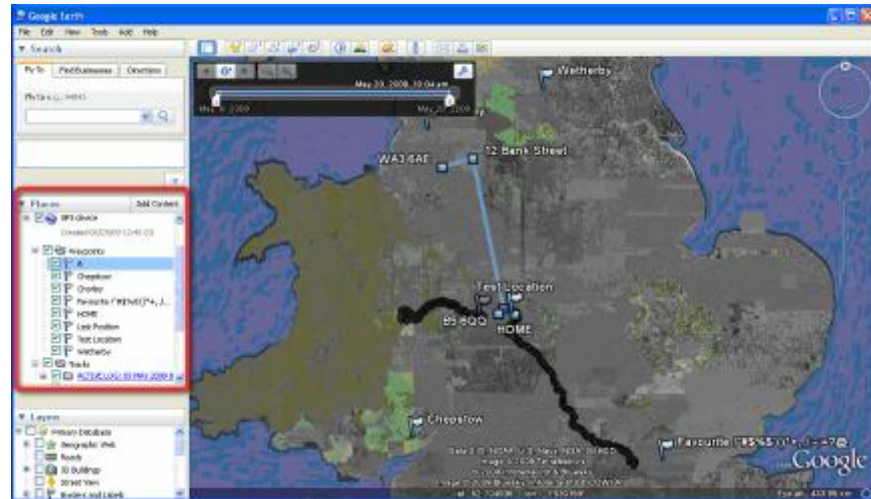


Figure 33f

A full Google Earth User Guide can be viewed at:
<http://earth.google.com/intl/en/userguide/v5/>

NOTE: Google Earth imports GPS coordinates, Time and Date, Altitude and waypoint name data only. Any other information displayed in Google Earth has been inferred by the Google Earth software.

Geo-Tag Data from Images

CellIDEK will now display Geo-Tag data for images that have been captured using a device with a GPS receiver.

A Geo-Tag consists of latitude and longitude coordinates and adds geographical identification to an image.

Geo-Tag information is automatically extracted and appears in the metadata section associated with an image.

1.	14092009.jpg	C:\Data\Images\Camera\200909\200909A0\	1116347
	Created	11:49:54 14 Sep 2009	
	Copied to CellIDEK	User Files\14092009.jpg	
	Preview		
	File Hash	f2de1cc1dbff1f280b901d9ddaf50394	
	Metadata *	Camera Make: Nokia Camera Model: 6720c Date/Time: 2009:09:14 12:49:53 Width x Height: 3503 x 1944 GPS position: 52.468925, -1.719844	

Figure 34 – Geo-Tag

NOTE: Geo-Tagging is only displayed if the image has been captured using a device that supports geo-tagging.

Attaching an Apple Device

CellIDEK software ver. 1.12.0.0. and newer is able to capture data from Apple devices such as the iPhone 2G, 3G, 3GS, and iPod Touch.

IMPORTANT NOTE: iTunes must be installed on the CellIDEK before it can support Apple devices. If it needs to be installed, follow the “Enabling Apple Device Support” procedure in the Upgrade Software chapter. **See the Upgrade Software section in Chapter 5 for more information on iPhone and iTunes.**

1. Begin by tapping the “Read New Device” button on the Main Application Screen. The Device Type Selection screen will appear.

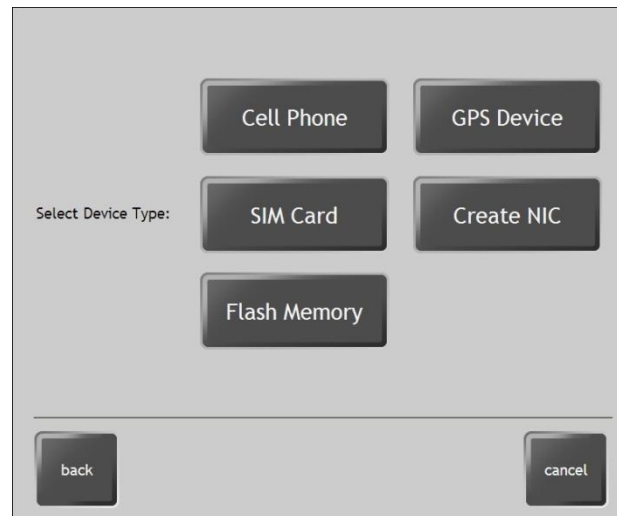


Figure 35 – Device Type Selection

Tap the **Cell Phone** button then select **Apple** from the list of handset manufacturers.

CellIDEK will illuminate the correct data cable with a green light. A prompt will appear on the screen asking the user to attach the cable to the Phone Cable Jack.

NOTE: DO NOT attach the Apple device until prompted by CellIDEK.

Remove the cable from the rack and insert it into the Phone Cable Jack. The cable's LED will turn red. Tap **OK** on the screen.

The cable's LED will turn green and a new prompt will appear. Attach the target cell phone at this time. Tap the **OK** button once the phone is connected.

Connection Options

Once the correct target device has been chosen, the next screen will show the different connection options that are available. The three different methods of connection are **Cable**, **Infrared** or **Bluetooth**.

The Connectivity Option screen also shows the type of data that can be extracted from the target device. This information is shown as a series of icons that are listed at the end of this chapter. Any data types that cannot be extracted have a red "X" through the icon.

The Connectivity option Screen will also alert the user if the target device supports memory cards.

NOTE: The Connectivity Option screen will show items that can be downloaded from the SIM card if the chosen handset is a GSM phone.

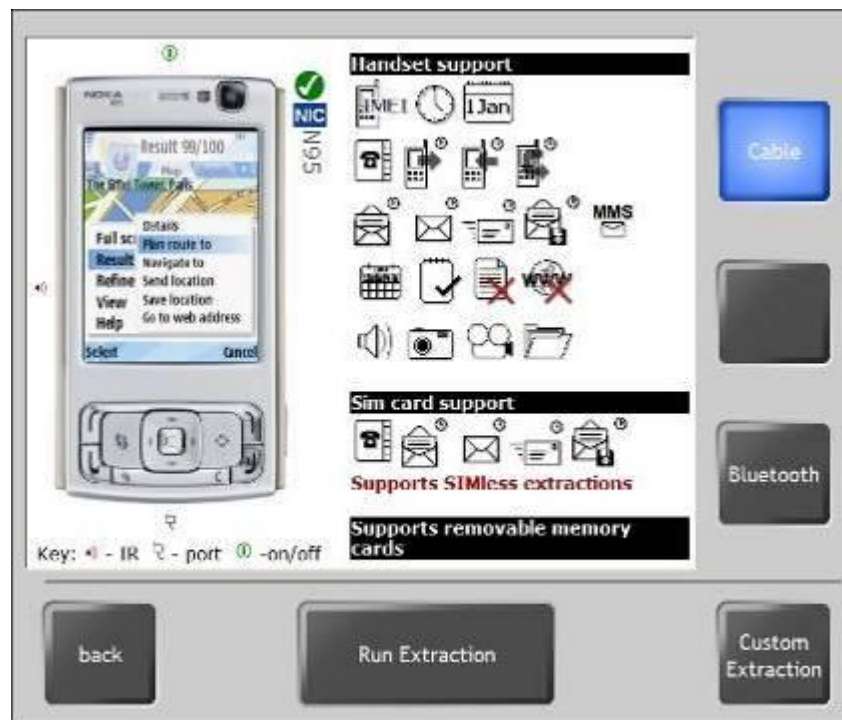


Figure 36 – Connectivity Option Screen

Helper Icons

The Connectivity Option Screen also has three "Helper Icons" that indicate the location of the handset's On/Off switch, Cable Port and IR Port (if available).

IR - IR port - on/off

Cable Connection

1. Select "Cable" from the Connectivity Option Screen. CellIDEK will access the Cable Adapters that are stored in the case lid.
2. Tap the "Run Extraction" button.
3. CellIDEK will illuminate the correct data cable with a green light. A prompt will appear on the screen asking the user to attach the cable to the Phone Cable Jack.

NOTE: DO NOT attach the cell phone until prompted by CellIDEK.

4. Remove the cable from the rack and insert it into the Phone Cable Jack. The cable's LED will turn red. Tap "OK" on the screen.
5. The cable's LED will turn green and a new prompt will appear. Attach the target cell phone at this time. Tap the "OK" button once the phone is connected.



Figure 37 – Data Cable Connected to Device

On completion of data extraction, the data cable must be replaced into any of the forty storage sockets. It does not matter which socket the cable is attached to.

Unlocking a Blackberry Device

The CellIDEK allows the user to input the PIN lock for a Blackberry device directly through the CellIDEK interface rather than the device itself. The CellIDEK will automatically detect if a PIN lock is enabled and bring up the Enter Password Prompt.



Figure 38 – Enter Password Prompt

TIP: Tap “Hide Password” to turn it on or off. If Hide Password is on, the password will appear.



Figure 39 – Hide Password Turned On

NOTE: The password or the PIN of the Blackberry device will need to be entered. CellDEK cannot unlock the device without it.

Infrared (IR) Connection (Cell Phones and PDA's)



Figure 40 – PDA Connected via Infrared

Many Cell Phones and PDA's have a built-in infrared (IR) port, which can be used to transfer data from the target device.

1. Select **Infrared** from the Connectivity Option Screen and tap the "Run Extraction" button.
2. A prompt will appear on the screen asking the user to set the target device to infrared. If the device is a recognized cell phone, CellIDEK will display instructions to set it to infrared mode.



Figure 41 – Instructions for Infrared Mode

NOTE: Most Windows-based PDA's are set to IR mode by going to Start – Active Sync™ - Tools – Infrared (IR) Connection.

3. Once the device is in infrared mode, place it next to the Infrared emitter on the control panel. Make sure that the device's IR port is facing the emitter.
4. After 5 – 20 seconds, the CellIDEK will emit a tone to indicate that the IR connection has been made.

Bluetooth Connection (Cell Phones)

Many Cell Phones have Bluetooth capability, which can be used to transfer data from the target device. CellIDEK has a range of 60 feet for Bluetooth connectivity.

Bluetooth extraction is a wireless communication link. On initiation, CellIDEK will produce a list of all Bluetooth enabled devices. Caution is therefore required when selecting the correct device name list, particularly if two devices in the area have the same name. Any connection will require confirmation/acceptance on the handset in question before the extraction process can commence. This prevents accidental connection to other devices.

Bluetooth capability can only extract data once the handset has been 'paired' with the CellIDEK unit. Pairing is when you enter a 4-digit code into

the phone/handset to accept the connection. If the 4-digit code is incorrectly entered you cannot access any data from the device. Data can only be extracted covertly over Bluetooth if the device is PAIRED FIRST, before returning it to the target owner. The data could then be extracted remotely without the target owner's knowledge (depending on phone type).

Cell Phone Connection

1. Set the target device to Bluetooth mode. If the device is a recognized cell phone, CellIDEK will display instructions to set it to Bluetooth mode.
2. Select "Bluetooth" from the Connectivity Option Screen and tap the "Run Extraction" button. A prompt will appear asking the User to "Tap Discover Devices to Begin".



Figure 42 – Discover Device List Screen

3. Once the target device has Bluetooth enabled, tap the "Discover Devices" button.
4. A Bluetooth Activity screen will appear as CellIDEK searches for Bluetooth devices.
5. After 20-30 seconds, CellIDEK will display a list of found devices. Select the name of the target device and tap the Select button.

NOTE: If the target device does not appear in the list, tap the "Discover Devices" button again. It may take more than one attempt to access the device.

6. Once connected, the Target device will prompt the user to allow connection. When requested, enter the 4-digit code as **1234** on the target device. Once the pairing process is complete, data extraction will commence automatically.

NOTE: The target device screen must be monitored during this stage of the process.

Some target devices require confirmation at various stages to continue extracting.

After data extraction, a reminder will appear for the user to remove the CellIDEK from the Device's Bluetooth History list.

Custom Extraction

Pressing the “Custom Extraction” instead of the “Run Extraction” button allows the user to decide what data is downloaded from a handset. This is handy when the user only needs the call log from a handset, for example.

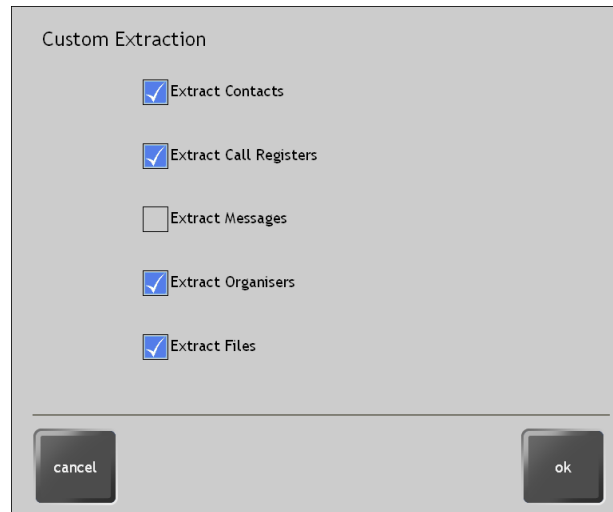


Figure 43 – Custom Extraction Screen

Tap the radio buttons to download or skip different data types. Press **OK** when finished.

Any data not read will appear in the capture report as “User chose not to extract _____”.

NOTE: “Extract Files” refers to all image, movie, sound and other files found in the Extended Data portion of a capture.

SIM Cards and Flash Memory Card Connection

SIM Cards and Flash Memory Cards require no special Connection procedures. Once the card is connected, data will begin to extract as outlined in **Chapter 3 – Capturing Data**.

Main Connectivity Icons

The Connectivity Option Screen uses distinct icons to show what data can be pulled from supported phones with different connection options.

ICON	DESCRIPTION	ICON	DESCRIPTION
	IMEI Number		Sent SMS Message
	Time		Saved SMS Message
	Date		Calendar Entries
	Contact List (ADN)		Tasks
	Dialed Calls		Audio Files
	Received Calls		Image Files
	Missed Calls		Video Files
	Read SMS Message		Other Files
	Unread SMS Message		NOTE: Presence of this symbol next to the icon denotes that the data is extracted with relevant timestamps.
	Multimedia Message – SMS messages that can include attachments.		Other Files

Table 1 – Connectivity Icon Table

Other connectivity Icons

The Connectivity Option Screen also tells whether a handset supports extraction through a NIC card or if the handset can be accessed without its SIM card.

Network Isolation (NIC) Cards and SIM Card ID Cloning

CellIDEK has the ability to isolate many handsets from the mobile network by using a Network Isolation Card (NIC). NIC cards are placed in the SIM card slot of the handset.

There are three categories of support for this feature.

- Handsets that support this feature are displayed with a blue NIC icon.
- Handsets that do not support this feature are displayed with a blue NIC icon crossed with a red line.
- Handsets that are untested for this feature are displayed with no NIC icon.



Figure 44 – Phone Model Selection Screen



Figure 45 – Connectivity Option Screen

A NIC card is included with each CellIDEK. Additional Network Isolation Cards can be purchased from your CellIDEK supplier.

Any CellIDEK unit running software ver. 1.7.0.0 or later is able to support Network Isolation Cards (NIC). These cards replace the handset SIM card and isolate the handset from its network while allowing a normal examination to take place.

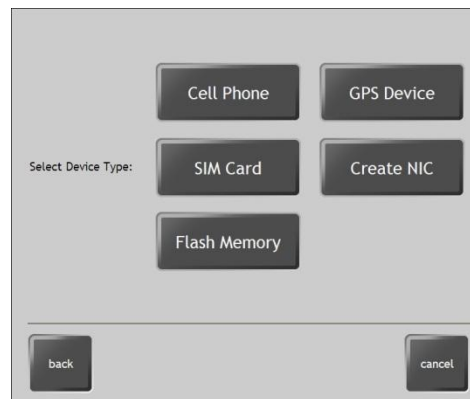
CellIDEK ver. 1.20.0 and higher include the following features:

- Create from Existing SIM
- Manually enter NIC data
- Create Test NIC

An explanation and summary for each method is included in the step-by-step instructions below.

SIM Card ID Cloning Step-by-step

To perform SIM Card ID cloning, tap **Read New Device** from the main menu. The device type selection screen will appear.



Tap **Create NIC**. The NIC Operation screen will appear.



- **Create from Existing SIM** - CellIDEK will clone the original SIM card ID. It will copy the ICCID and IMSI from original SIM card onto a NIC (SIM ID Card). The ICCID and IMSI on NIC must be identical to original SIM. NIC (SIM ID Card) ICCID and IMSI values can be checked by performing a SIM Card Extraction of NIC.

This method is useful when the original SIM card is available.

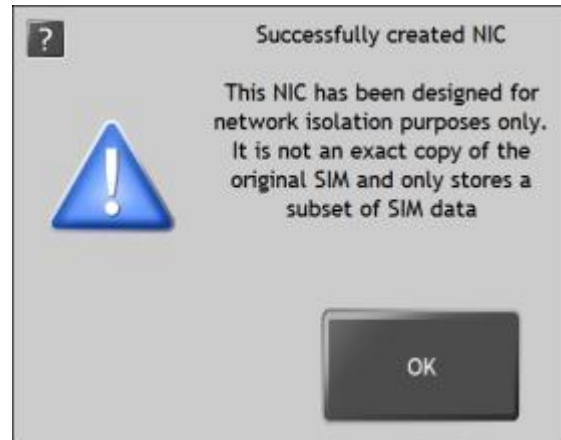
1. From the NIC Operation screen, tap **Create from Existing SIM**.
2. Place the SIM card into the SIM card adapter then insert the adapter into the reader. Tap **OK**.



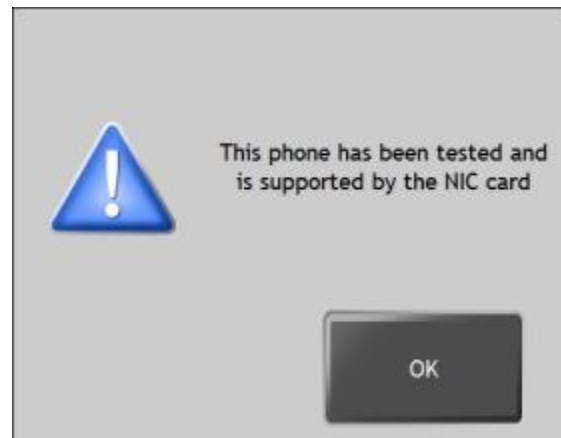
3. CellIDEK will read the inserted SIM card. After this process, the following screen will appear:



4. Remove the SIM card from the adapter and place the NIC (SIM ID Card) into the same adapter. Insert the adapter into the reader then tap **OK**. CellIDEK will now create the NIC (SIM ID Card). When this process finishes, the screen below will appear. Tap **OK**.



5. CellIDEK will prompt whether a phone is compatible with Network Isolation Cards. Selecting **No** will finish the process and bring the user back to the CellIDEK main screen. Selecting **YES** to the screen below will prompt the user to identify the phone to be used with the NIC (SIM ID Card). After selecting the phone, one of the following two screens will appear. Tap **OK** to finish the process and go back to the CellIDEK main screen.



- **Manually enter NIC data** - CellIDEK will create a NIC (SIM ID Card) by writing valid ICCID and IMSI values entered by the user.

This method is useful when the original SIM card is not available. To find out the correct ICCID or IMSI numbers, please contact the handset's network provider.

Valid ICCID numbers are 19 or 20 digits long and include the following:

- The first 2 digits represent the Major industry identifier (89 for telecommunications)
- 1-3 digit Country Code
- 1-4 digit Issuer ID
- Variable length individual Account ID

Valid IMSI numbers are 15 digits long and include the following:

- The first 3 digits represent the Mobile Country Code (MCC).
- The next 2 or 3 digits represent the Mobile Network Code (MNC).
- The next digits represent the mobile station identification number. Normally there will be 10 digits but would be fewer in the case of a 3-digit MNC or if national regulations indicate that the total length of the IMSI should be less than 15 digits.

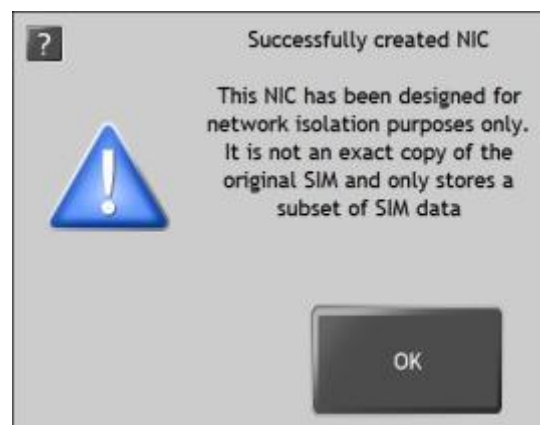
NIC (SIM ID Card) ICCID and IMSI values can be checked by performing a SIM Card Extraction of NIC.

1. From the NIC Operation screen, tap **Manually enter NIC data**.
2. Use the virtual keyboard (or an attached USB keyboard) and enter the ICCID and IMSI values. When finished, tap **OK**.

3. Place the NIC (SIM ID Card) into the adapter and insert the adapter into the reader. Tap **OK**.



4. CellIDEK will now create the NIC (SIM ID Card). When this process finishes, the screen below will appear. Tap **OK**.



5. CellIDEK will prompt whether a phone is compatible with Network Isolation Cards. Selecting **No** will finish the process and bring the user back to the CellIDEK main screen. Selecting **YES** to the screen below will prompt the user to

identify the phone to be used with the NIC (SIM ID Card). After selecting the phone, one of the following two screens will appear. Tap **OK** to finish the process and go back to the CellIDEK main screen.



- **Create a test NIC** - CellIDEK will attempt to write default ICCID and IMSI onto a NIC (SIM ID Card). The default values are:

ICCID = 894900050701001429

IMSI = 001010123456789

A warning will appear after creating a test NIC:

"A Test NIC can be used to access handset data but should only be used as a last resort. Inserting into a handset may cause data to be lost or changed"

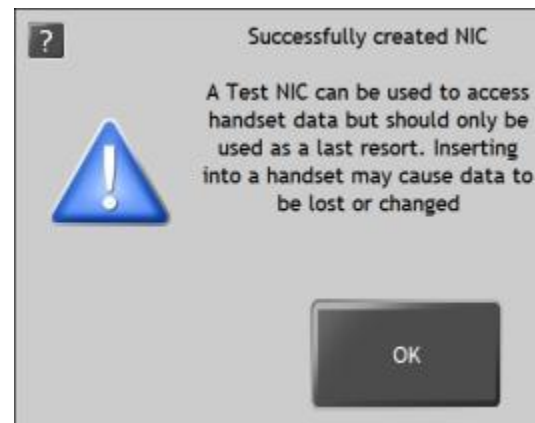
NIC ICCID and IMSI values can be checked by performing a SIM Card Extraction of NIC.

This method should be used as a last resort if none of the previous methods work. It is important to understand that incorrect ICCID or IMSI data may cause data on the handset to be lost or changed.

1. From the NIC Operation screen, tap **Create Test NIC**.
2. Place the NIC into the adapter and insert the adapter into the reader. Tap **OK**



3. CellIDEK will now create the NIC (SIM ID Card). When this process finishes, the screen below will appear. Tap **OK** to finish the process.



Extraction without a SIM Card

CellIDEK can extract data from many handsets with the SIM card removed. If a handset's SIM is PIN locked this feature allows an extraction of the handset with the SIM removed. If supported, this feature is displayed in the Connectivity Screen.

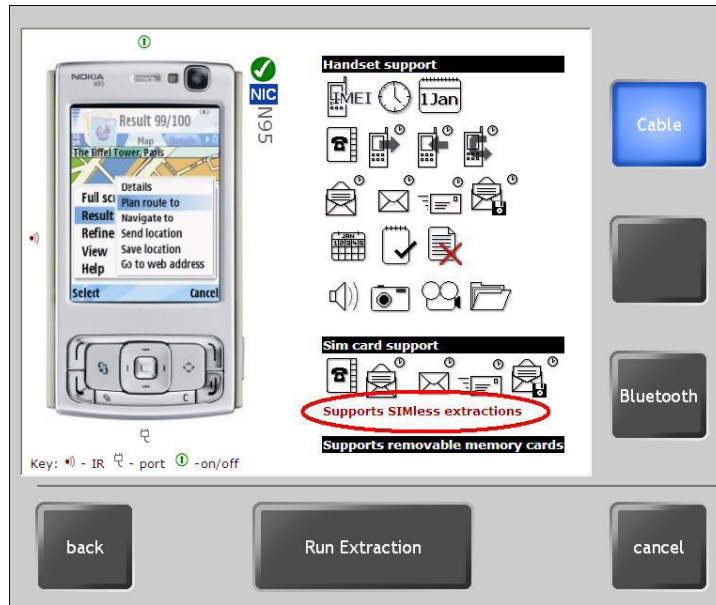


Figure 46 – Connectivity Option Screen

Capturing Nokia Handsets

Certain Nokia Handsets require special adapters in order to extract data. This section deals with two major topics: Installing the CA-42 Cable and using Nokia Flash adapters to connect to a handset.

Nokia CA-42 Cable Installation

The Nokia CA-42 Cable that is provided with CellIDEK is different than the other cables. It resides in the storage compartment and not in the connector rack. As such it needs to be installed on the CellIDEK prior to use. To install the cable:

1. Boot the CellIDEK to the Main Application Screen.
2. Attach the CA-42 Cable to the USB port. Wait for the USB connection tone. (It may take over a minute for the tone to be heard).
3. Remove the cable. It is now ready to be used for extractions!

Nokia Flash Adapters

The CellIDEK is able to connect to certain Nokia handsets through the use of specialized adapters from Nokia. Refer to chapter 7 for a list of Nokia handsets that are supported and the corresponding adapters.

Attaching Nokia Flash Adapters

Follow these steps to attach a flash adapter to a Nokia handset:

NOTE: This demonstration uses a Nokia 1100, but the procedure is similar for other models.



Figure 47 – Nokia 1100 Handset

16. Power the handset off.
17. Remove the back cover and the battery. Leave the SIM card in place.



Figure 48 – Handset Battery Removed

NOTE: The time and date on the handset may be changed when the battery is removed.

18. Locate the data pins in the battery compartment of the handset. You may need to remove a small, black plastic cover.



Figure 49 – Data Pins

19. Place the appropriate adapter inside the handset so that the adapter's data pins touch the pins of the handset.



Figure 50 – Adapter Data Pins (circled)

20. Insert the lower part of the adapter first, then snap the upper part of the adapter into place.



Figure 51 – Adapter in Handset

21. Insert the handset's battery into the adapter by aligning the battery pins. Push the battery in and down until it snaps into place.

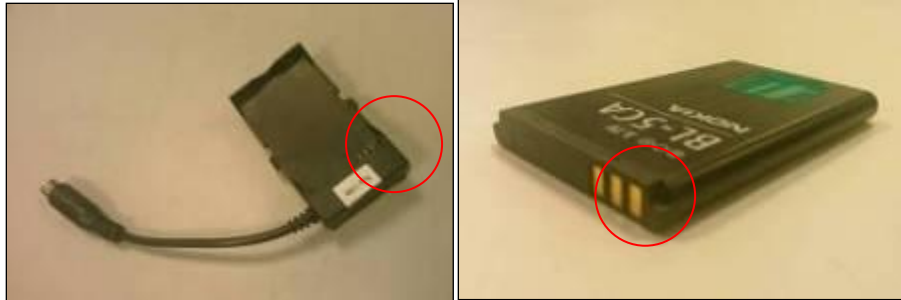


Figure 52 – Battery Pins on Adapter and Battery (circled)

22. When properly assembled, the handset should look like the picture below:



Figure 53 – Installed Flash Adapter

23. Power the handset on, and perform the data extraction with Cable 25 as outlined in the “Cable Connection” section earlier in this chapter.



Figure 54 – Connected to Cable 25

3. Capturing Data

Case Details

Once the target device has been successfully connected, the Case Details input form appears:



The screenshot shows a software interface for entering case details. It features a list of labels on the left and corresponding input fields on the right. The labels are: Case Reference Number, CellIDEK Operator, Investigating Officer, Exhibit ID, Bag Seal Number, Bag Reseal Number, ICCID Printed on SIM, Service Provider, IMEI Number Printed on Handset, Time on Device, Date on Device, Time of Extraction, Date of Extraction, and Notes. The input fields for Time of Extraction and Date of Extraction are pre-filled with '10:55:28' and '09-01-04' respectively. At the bottom of the form are two buttons: 'Later' and 'OK'.

Figure 55 – Case Details Input Form

1. If the report will be filled out later, tap the **Later** button to continue on to data extraction.
2. If the report is to be filled out now, tap the first line that needs to be filled out.
3. The CellIDEK keyboard will automatically open. The keyboard allows the use of upper/lower case letters, numerals and other characters, however not all characters have been validated. The CellIDEK will display one of two types of keyboards.



NOTE: The keyboard is also accessible from any screen that displays the button to the left.



Figure 56a –Alphanumeric Keyboard

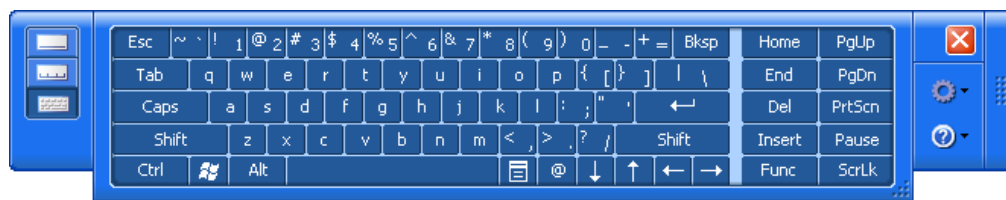


Figure 56b – Alphanumeric Keyboard

NOTE: Alternatively, a USB Keyboard can be attached to the CellIDEK through the USB port.

4. Enter the information and tap the **Enter** key when finished.
5. Repeat steps 2 – 4 for each line that needs to be filled out.
6. Tap the **OK** button once all of the information is filled out. The fields entered will be built into the final report, which is generated on completion of the extraction.

Other Notes

Certain fields will show users a list of previous entries. These entries can be dropped into the field without retyping them. The Case Details form will remember the last 20 entries for the following fields:

- Case Reference Number
- CellIDEK Operator
- Investigating Officer
- Exhibit ID
- Service Provider.

The Case Details Form can be opened and edited for previous extractions.

Data Extraction

Searching for Drivers

Sometimes, CellIDEK may need to load new drivers for a handset that has never been attached before. A progress bar will appear briefly that indicates drivers are being loaded. The capture session will continue once the drivers are loaded.

Note: Allow sufficient time for the driver to load.

Standard Data Extraction

Once a target device has been identified and connected, the CellIDEK software will prompt the user to continue. Doing so starts the extraction process for “standard data”.

Standard data includes such information as Contacts, Call Logs, SMS Text Messages and Organizer data.

As the data is being extracted, CellIDEK will show the progress in the Activity Log on the screen:



Figure 57 – Activity Log

Abort Capture

The capture process can always be aborted by tapping the **Abort** button during the capture operation. This button is located underneath the Activity Log. If the button is pressed a prompt will appear:



Figure 58 – Abort Capture Prompt

This prompt will allow the user to skip the current capture operation (i.e. downloading contacts) or abandon the whole capture session. Pressing the Abandon button will go back to the Main Application Screen.

Extended Data Extraction

“Extended Data” refers to such items as Image files, Video files, Audio files and any other files such as themes, screensavers, etc.

When the standard data has been extracted, the user is given the option to select and download other files from the target device.



Figure 59a – Data Download Selection Screen

1. Tap the **Images** Button at the bottom of the screen, CellIDEK will display all supported

Image files that were found in the target device's memory.

2. Select an Image file for download by tapping once on it. Tap a second time to deselect the file. Scroll through the list and tap any other files that are desired.
3. Repeat Steps 1 – 2 for the “Video”, “Audio” and “Other” buttons.

NOTE: Select all files of a particular type by tapping the “Select all <.ext> files” bar.

4. As files are selected, CellIDEK shows the number and size of total files at the top of the screen.
5. Once all needed files have been selected, tap the Download button. The Download Manager will show progress as the files are downloaded to CellIDEK.

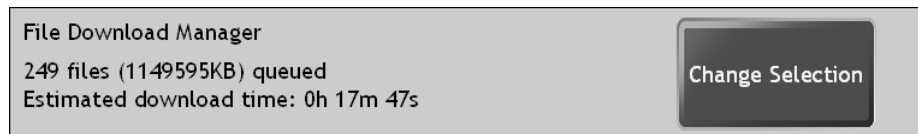


Figure 59b – Download Manager

6. At any time, press the **Change Selection** button to stop downloading and re-select the files to download.
7. As the files download, the Activity Log will indicate downloaded files in green, selected files not downloaded in gray and unselected files in white.

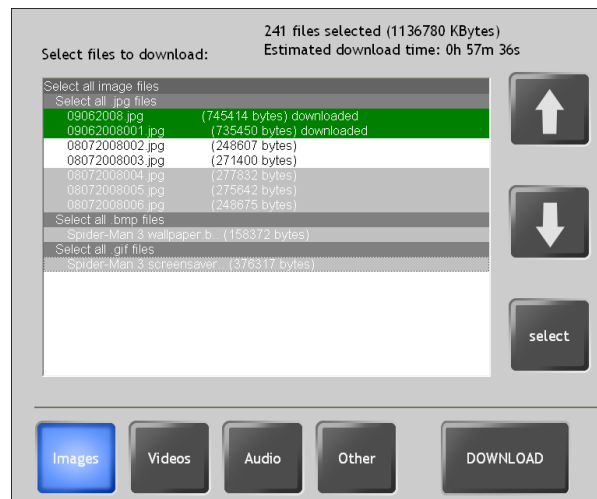


Figure 59c – Activity Log During Download

On completion of the download, a summary of all files, including listings for files not selected for download, will be displayed. The data received

from the target device is written into an .XML and a .CSV file, then stored in the case unique folder.

NOTE: The csv data file only contains data for Device Info, Call Logs, Contacts, and Messages.

Support for Non-Latin Languages

All handsets supported by CellIDEK have had full validation of each feature carried out for the full range of Latin character sets (ASCII programming language).

CellIDEK has also been further developed to extract information from Unicode languages that provide non-Latin character sets such as Greek and Arabic characters.

These extractions have not been verified although tests indicate the following:

- SIM cards (supported natively)
- Windows (supported natively)
- Nokia (supported natively)
- Sony Ericsson (full support, Unicode development implemented: an option has been implemented to allow the user to extract in ASCII if required)
- Samsung (partial validated Unicode support - for messages only)
- Motorola (partial support, Unicode development implemented: an option has been implemented to allow the user to extract in ASCII if required)
- Siemens (partial i.e. validated Unicode support for handsets contacts and notes)

If CellIDEK does not extract a character; it will appear as a square on the screen.

Special Note for Motorola and Sony Ericsson

The extraction of Unicode characters for all data sets has not been verified for Motorola and Sony Ericsson devices.

Before an extraction begins with one of these devices the CellIDEK will offer the user a choice:

1. Extract validated data set only. This means that some Unicode data will not be extracted.
2. Attempt to extract all Unicode data. Software will try to extract Unicode

characters for all data sets on the device. At this time the output in this case is not guaranteed by validation testing.

Other Data Extraction Notes

Android Devices

CellIDEK has the capacity to extract information from mobile devices that use Google's Android operating system. Extracted data includes: Contact details, Call Logs, SMS messages, Calendar/Tasks and Files. CellIDEK supports extraction of contacts database on handsets running on Android 2.2 operating system.

Before an extraction can be performed, users must:

1. Tick "Unknown Sources" and "USB debugging" in the target devices application settings.
2. Ensure the target device has a formatted SD Card inserted.

The Android extraction process requires the use of an application (Agent) which is automatically installed onto the target device and executed. The Agent extracts data from the device and stores in a temporary file called ANDDAT on the devices SD Card. (**\\sdcard\\ANDDAT**). At the end of the extraction, the ANDDAT file is deleted from the card and the Agent is automatically uninstalled.

- Supports physical extraction and decoding of Android phones
- Supports Android O/S 1.6 through 2.3.4
- Supports Android file systems EXT3, EXT4 and RFS, and provides limited support for YAFFS2. YAFFS2 is expected to be fully supported in a future release
- Supports dumping and decoding of contacts, call logs, SMS, emails and user files
- Can extract deleted file items such as databases, images, video, audio and documents

It is expected that most Android phones using the above mentioned Android O/S and/or file systems will be supported.

Android Ad-hoc device rooting

CellIDEK software version 1.21.x.x and newer can temporarily root Android OS devices. This allows access to all user data stored on the device. Ad-hoc rooting does not work with all Android devices. Rooting is removed after the device is restarted. Please check with local laws governing rooting prior to using.

- Compatible with the majority of Android OS devices
- Android OS versions 1.6-2.3 are supported
- Gives access to the whole file system. After rooting/data/data and/data/misc folders of Android device internal memory are available for analysis. Without root permissions these folders are inaccessible.
- 100% successful rooting is not guaranteed

NOTE: 100% successful rooting is not guaranteed. In rare instances rooting can render the handset inoperable. Proceed with caution.

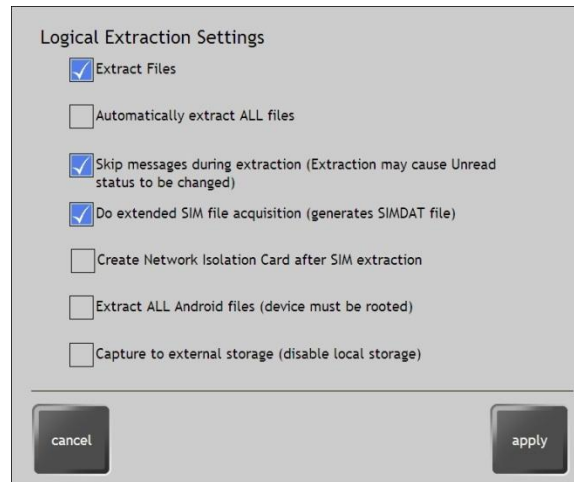
Ad-hoc rooting will provide the following features:

- Allows user to access the whole device file system
- Deleted data in database tables (deleted contacts, messages, etc.)
- Pre-installed and custom applications with user data
- Yahoo! Mail and Google Mail application data
- Google Maps, Google Talk and Google Calendar application data
- Dropbox application data

Ad-hoc device rooting is not required for the data extraction of Call Logs, Phonebook and Messages.

When performing an Android extraction, CellIDEK will ask if you want to temporarily "Root" the Android device. If successful, the device will remain rooted until turned off.

In the **Logical Extraction Settings** there is a option called **"Extract ALL Android Files (device must be rooted)"**. When checked, and the Android device is rooted, ALL file locations will be extracted. Please note this may take a long time to complete the extraction.



If the device is not rooted, only the following file locations will be extracted:

/sdcard/

If the device is rooted and the checkbox for 'Extract ALL Android files' is not checked, only the following file locations will be extracted:

/sdcard/

/data/data/

/data/misc/

Android Email

CellIDEK can extract data from the default email and Gmail databases.

- Device must be temporarily rooted
- Email attachments not supported
- Email body preview only

Android Location Information

The Android extraction can extract Cell and WIFI connection location information which includes GPS coordinates and timestamps. This information is shown in the Location Information section of the report. CellIDEK also generates a Google Earth .KML file called GPSTData.kml which is created in the extracted data files folder. This file can be imported into Google Earth. Note: The device must be rooted to acquire location information.

Android files of Interest

The Android extraction can extract system files
*. Some of these files may contain useful
information. These files are described below: -

- ***\\data\\data\\com.google.android.location\\files\\cache.wifi***
Contains cached WIFI details.
- ***\\data\\data\\com.android.providers.userdictionary\\databases\\user_dict.db***
Containing cached user entered text
- ***\\data\\data\\com.google.android.gm\\databases\\gmail.db***
- ***\\data\\data\\com.google.android.gm\\databases\\mailstore.*.db***
Contains Google email account and mailstore databases
- ***\\data\\data\\com.google.android.talk\\shared_prefs\\BuddyList.xml***
Contains Google Talk contact details
- ***\\data\\data\\com.android.providers.calendar\\databases\\calendar.db***
Contains Google calendar details
- ***\\data\\data\\com.yahoo.mobile.client.android.mail\\databases\\mail.db***
Contains Yahoo email details

NOTE: Device must be rooted to acquire some
of these files.

Data Capture from Apple iPhone

Support for MMS was introduced in version 3.0 of
the iPhone software.

CellIDEK now extracts MMS messages from Apple
iPhone handsets that have version 3.0 and above.

MMS messages will be automatically extracted and
will be added to the output report in a separate
chapter entitled "MMS Messages".

CellIDEK now supports extraction of Skype data
from Apple iPhones. Extracted data includes;

- Voice/Video calls

In the extraction report, Skype voice/video calls are
shown under the Call Register section

- Chat messages

In the extraction report, Skype chat messages are
shown in the Messages section

- User profiles

In the extraction report, Skype user profiles are
shown in the Contacts section

Apple Location Information

The file GPSTData.kml is created when extracting an iPhone. This file can be opened using Google Earth.

iPhone Dictionary Data

CellIDEK software version 1.21.x.x and newer reports a list of keywords extracted from the following iPhone file: *dynamic-text.dat*. These keywords are shown in the report under the dictionary heading.

iPhone files of Interest

During the iPhone extraction process a number of 'other' files can be extracted. Some of these files may contain useful information.

A selection of these files is shown below:

- **`\private\var\mobile\Library\Cookies\Cookies.plist`**
Contains website cookies saved by the Safari browser.
- **`\private\var\mobile\Library\Safari\Bookmarks.db`**
Contains website bookmarks saved by the Safari browser.
- **`\private\var\mobile\Library\Safari\History.plist`**
Contains website history saved by the Safari browser.
- **`\private\var\mobile\Library\Mail\Accounts.plist`**
Contains email server account details, this does not include actual emails.
- **`\private\var\mobile\Library\maps\History.plist`**
Contains a 'Google Maps' history file which includes addresses, route directions and other useful data.
- **`\private\var\mobile\Library\Keyboard\dynamic-text.dat`**
A keyboard cache containing user entered text.
- **`\private\var\mobile\library\Preferences\com.apple.Maps.plist`**
Contains the last longitude/latitude coordinates viewed in the 'Google maps' application.
- **`\private\var\mobile\library\Preferences\com.apple.mobilesafari.plist`**
Contains a list of recent searches performed using the Safari browser
- **`\private\var\root\library\caches\locationd\consolidated.db`**
Contains a list of web connections and location services
- **`\private\var\mobile\library\Calendar\Calendar.sqlitedb`**
- **`\private\var\mobile\library\Preferences\com.apple.mobilecal.plist`**
Contains Google calendar details
- **`\private\var\mobile\library\WebKit\Databases\Databases.db`**
- **`\private\var\mobile\Library\WebKit\Databases\http_m.yahoo.com_0\*.db`**
- **`\private\var\mobile\Library\WebKit\Databases\https_mail.google.com_0\*.db`**
Contains email database details

- \private\var\mobile\Applications\com.yahoo.messenger\Library\Preferences\com.yahoo.messenger.plist
- \private\var\mobile\Applications\com.yahoo.messenger\Documents*.db
Contains a list of Yahoo Instant Messenger files

Note: The content of these files has not been verified.

Data Capture from Symbian OS

CellIDEK now has the capacity to extract information from mobile handsets that use the Symbian operating system (Series 60 / Nokia Symbian OS V 8.1). Extracted data includes Contact Details, Call Logs, SMS messages, Calendar, Tasks and Files.

This data capture is possible with the following caveats:

No SIM data is extracted from Symbian handsets.

“Nicknames” are not extracted.

Cannot extract any SMS messages stored in 'My Folders' directory or other user created folders.

To extract data, it is necessary for CellIDEK to write temporary .dat files to the target phone. These files are removed at the end of capture.

Capture from Symbian UIQ 2nd & 3rd Edition OS

CellIDEK now has the capacity to extract information from mobile handsets that use the Symbian UIQ 2nd and 3rd Edition OS. Extracted data includes Contact Details, Messages, Calendar, Tasks and Files.

Data capture requires a handset Agent and the use of a CellIDEK UIQ memory card. This is a specially prepared card by CellIDEK to temporarily store and transfer data.

WARNING: Do not create the UIQ memory card from the card used inside the handset. Always use a separate blank, formatted card that is not write protected.

Use these memory cards for best results:

Sony Ericsson

P800 / P900 Memory Stick Duo, minimum size 16MB

P910i / P990i Memory Stick PRO Duo, minimum size 64MB

M600i / P1i Memory Stick Micro (M2), minimum size 256MB

Motorola

Z8 / Z10 Micro SD, minimum size 128 MB

Follow these steps to capture data:

1. User inserts spare memory card into the memory card reader.
24. CellIDEK generates and formats a UIQ card and installs the Agent.
25. User then inserts the UIQ card into handset.
26. User locates the Agent installer on the UIQ card using the file browser application and then installs the agent onto the device.
27. User locates and runs the Agent application, then waits for the data extraction to complete. ***Extracted data is now stored on the UIQ card.***
28. User removes the UIQ card from the handset and inserts it back into the memory card reader.
29. CellIDEK automatically copies and decodes all data from the UIQ card.
30. CellIDEK formats the UIQ card.
31. CellIDEK instructs the user to uninstall the agent from the handset.
32. CellIDEK presents the results to the user.

This data capture is possible with the following caveats:

Extraction of Call Logs is not supported.

Extraction of SMS messages stored in user created folders is not supported.

Extraction of MMS / Email messages is not supported.

Memory cards within these phones need to be captured separately. (Please refer to **“Capturing a Flash Memory Card”** earlier in this chapter).

Symbian Event Logs

Symbian S60 2nd Edition and 3rd Edition handsets have the ability to record events which CellIDEK can now extract.

The following information can be extracted:

- Voice Call events – ID, Number, Date, Time, Direction and Duration
- SMS events – ID, Number, Date, Time, Direction, Message Fragment and Status
- MMS events – ID, Name, Date, Time, Direction and Duration

These events are normally accessed by the handset's Log Viewer application. These events have a validity period set in the Log Viewer settings. Once this duration period has expired, events will no longer be accessible.

Points of Interest

- Timestamps extracted by CellIDEK are always reported in Greenwich Mean Time (GMT) whereas the timestamps shown in the handset's Log Viewer application are set to the handset's current time zone.
- CellIDEK is able to extract message fragments for SMS events. These are not displayed by the Log Viewer application. Only the first 64 characters of a message are reported any messages greater than 64 characters are truncated in the event log, including multipart messages where only the first 64 characters of the first message part are reported.
- Incoming MMS messages are shown as 2 separate events, 1 incoming SMS event and 1 outgoing MMS event. CellIDEK extracts both of these events. The SMS event has a body fragment of *Data Message*

The following Symbian S60 handsets are verified on CellIDEK:

NOKIA: 3230, 3250 5320XpressMusic, 5500 Sport, 5700, 6120, 6220 Classic, 6260, 6290, 6620, 6630, 7610, E50, E51, E61, E63, E65, E66, E70, E71, N70, N71, N72, N73, N76, N77, N79, N80, N81, N82, N85, N90, N91, N93, N93i, N95, N95 8GB

SAMSUNG: I8510, SGH-D720, SGH-G810

Data Capture from Sony Ericsson Phones

If the User runs into trouble capturing data from a Sony Ericsson phone (or any other handset that connects to Cable #18), users should make sure that the "Default Contacts" setting on the target handset is set to "Phone Contact" before an extraction is performed.

This is done by navigating manually on the phone's menus as follows:

Menu > Contacts > Options > Advanced > Default Contact > Select "Phone Contact".

Once this setting is enabled, users should have no trouble extracting data from the handset.

Unlocking Sony Ericsson Handsets

CellIDEK is able to deactivate Sony Ericsson handset lock codes of up to 8 digits.

Some handsets may not be able to establish a USB connection whilst the handset lock is active. In this case CellIDEK will first attempt to locate device drivers then ask the user to confirm the handset is locked.



Figure 60a

If yes the user is instructed to restart the handset and re-connect it before the unlock code screen appears.



Figure 60b

Tap OK to unlock the handset.

NOTE: Depending on the code that has been set CellIDEK may take some time to unlock the handset.

Below is a guide as to how long unlocking may take. To attempt to unlock:

- All 4 digit codes up to 4 mins
- All 5 digit codes up to 40 mins
- All 6 digit codes up to 7 hours
- All 7 digit codes up to 3 days
- All 8 digit codes up to 30 days

The Activity log shows the progress of the unlocking process



Figure 60c

NOTE: The unlocking process can be cancelled at any time. However data extraction cannot be performed on a locked handset. If the process is cancelled without finding the unlock code, it will need to be started again to unlock the handset.

Once the handset has been unlocked data extraction will be performed automatically. The unlock code is displayed in the Device Information section of the report.



Figure 60d

NOTE: CellIDEK only unlocks the handset; it DOES NOT remove the handset lock. If the handset is restarted after the extraction the code will need to be re-entered.

NOTE: CellIDEK cannot unlock handsets that do NOT contain a SIM card.

Blackberry PIN Numbers

Each Blackberry device is assigned a unique personal identification number (PIN), which allows identification of each device.

The PIN number of other Blackberry users is stored in the devices phonebook with their contact information and allows direct PIN-to-PIN emailing and messaging.

CellIDEK extracts each contact PIN number from the phonebook as well as the PIN numbers associated with messages sent from other Blackberry users.

Time/Date Stamps from Motorola Phones

Users should note that Motorola timestamps / date stamps are not reported due to current limitations in how file “modified” and file “created” timestamps are reported in the Motorola OS. This will be remedied in a future software update.

Null Response from Siemens handsets

Occasionally, Siemens handsets have been known to return a NULL response when asked for data of a particular type (i.e. SMS messages). If this happens, the following error message will appear under the relevant data type:

Handset has been known to occasionally return a null response. Please refer to handset and retry extraction.

Users should check the affected field(s) on the handset and retry the extraction.

SMS Attached Content

SMS Messages can contain extra content other than standard text.

CellIDEK now notifies the user when any extra content appears within an SMS Message.

NOTE: This feature is currently only supported for SMS extracted through handsets supporting AT commands. Reporting of attached content functionality is not supported for Blackberry, Symbian or WinMobile handsets.

Notifications appear within the body part of the message and describe the type of attached content.

Notifications appear in the following form:

[CONTAINS CLIPART REFER TO HANDSET]

SMS Messages may contain more than one type of attached content. CellIDEK will display a notification for each piece of attached content within the message.

VCard and VCalendar Content

VCards and VCalendars are used to exchange information between application.

VCards store address book entries while VCalendars store organiser entries.

VCards and VCalendars can be attached to SMS Messages. CellIDEK will now display the raw data of attached VCards and VCalendars within the body of the SMS Message.

VCard and VCalendar data will appear between the tags

[ATTACHEMENT: CONTACT DATA]

Or

[ATTACHMENT: CALENDAR DATA]

And will end with

[END ATTACHMENT]

As SMS Messages have a limited size VCards and VCalendars may span several messages.

In this case each part of the VCard or VCalendar will start with the tag

[ATTACHMENT CONT..]

To indicate the content follows from a previous message.

Each message part will also end with the tag below to indicate that more content will follow in the next message:

[...]

NOTE: VCard and VCalendar content is displayed in its raw format. Where VCards and VCalendars span more than one SMS Message, each part will need to be manually put together to form a valid VCard or VCalendar entry.

More information on VCards and VCalendars can be found at www.imc.org/pdi/

Customized Blackberry Extractions

CellIDEK now allows users to specify which parts of a Blackberry Devices memory are extracted.

To use this feature select PDA from the read new devices menu and then select Blackberry.

On the following screen select Custom Extraction



Figure 60e

Here you have the ability to enable or disable features for that particular extraction. You can choose to download or skip the following:

- Call Registers
- Contacts
- Messages
- Organisers
- Files

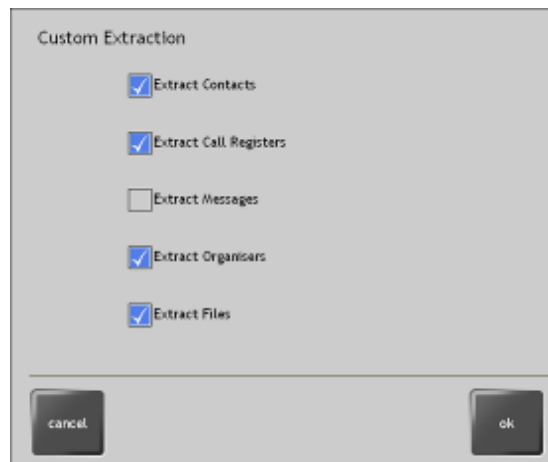


Figure 60f

Any memory not read will be flagged in the output report with the following message: "User chose not to extract xyz"

Various WinMobile Devices

The following mobile GPS software has been verified and can be extracted from supported devices using CellDEK:

- Google Maps Mobile (Various Windows Mobile devices)

Other Extraction Notes

CellDEK can now playback W4A files that have been extracted from devices.

W4A files are audio files that can be created on some mobile handsets.

4. Analyzing Captured Data

Displaying Extracted Data

Once the extraction for standard and extended data is complete, the data is displayed onscreen prior to the generation of the CellDEK report. All data is individually hashed using the MD5 algorithm to ensure that the data can be verified as unchanged.

The Standard and Extended Data View Screens both contain the following navigational buttons:

Case Details – This button opens the Case Details Input Form. Data can be edited or added to the form. Please refer back to **Chapter 3 – Capturing Data** for more information about this form.

Up Arrow – This button allows the user to scroll up through the Data List.

Down Arrow – This button allows the user to scroll down through the Data List.

Print – This button prints a copy of the list to a USB printer that is attached to the USB port. Please see **Chapter 5 – Other Features** for more information on printing.

Done – This button closes the data View Screen and goes back to the Main Application Menu.

Viewing Standard Data



Figure 61 – Standard Data View Screen

The Standard Data View Screen allows the user to view such information as contacts, call log, Text Messages, and Calendar data. The following buttons are unique to this screen:

Device Info – This button displays general handset information like the Brand Name, Model Number and IMEI number.

Contacts – This button displays all Contact information including names, phone numbers and other information.

Call Log – This button displays a list of calls dialed, received and missed.

Text Messages – This button shows all text messages sent and received.



Figure 62 – Captured Text Messages

MMS or Email Messages – If supported, CellIDEK displays all captured MMS messages along with their attachments. For more details, please refer to the **MMS Messages** and **Email Messages** sections on the next page.

Organizer – This button shows information such as reminders, notes, etc.

Extended Data – This button opens the Extended Data View Screen.

NOTE: A “Not Extracted” message will appear for any data that CellIDEK cannot pull from the target device.

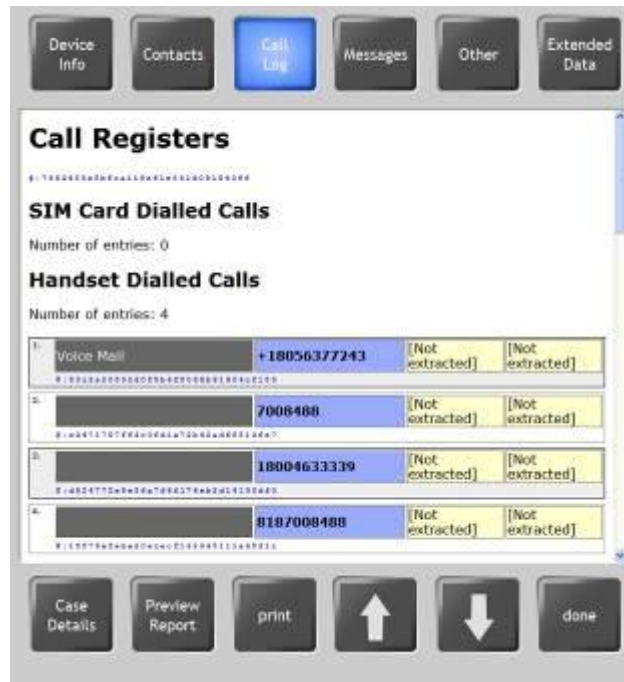


Figure 63 – Time/Date Stamps Not Extracted

MMS Messages

MMS messages are basically SMS text messages with attachments. CellIDEK automatically captures all MMS messages along with their attachments.

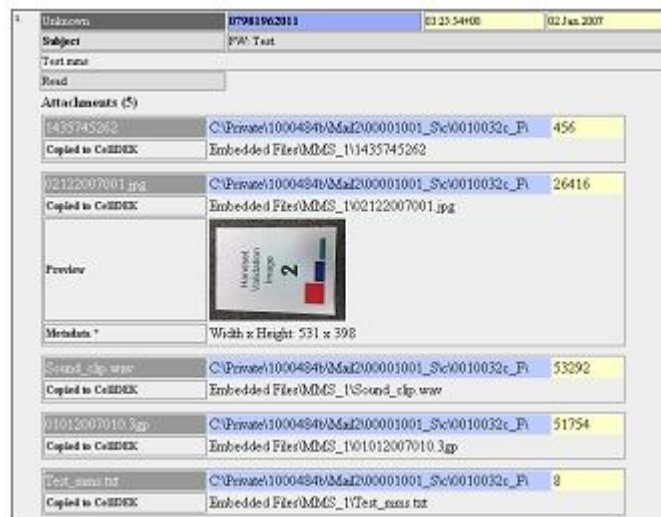


Figure 64 – Captured MMS Messages

In the example above, 4 MMS messages have been captured. The first message (displayed) contains 5 attachments with the following extensions:

.smil - This file is extracted from the handset and indicates how the media is grouped together on the handset.

- .jpg** - An image file.
- .wav** - An audio file.
- .3gp** - A video file.
- .txt** - The text of the message.

Any supported media types (i.e. .jpg, .wav, .3gp) can be viewed in CellIDEK just like their extended data counterparts. Refer to the “**Viewing Extended Data**” section on the next page.

Email Messages

CellIDEK is also able to capture Email messages from most Windows Mobile devices. These are handled the same way as MMS messages.



Figure 65 – Captured Email Messages

Viewing Extended Data



Figure 66 – Extended View Data Screen

The Extended Data View Screen allows the user to view such information as Image files, Video files, Audio files and Other files. The following buttons are unique to this screen:

Images – This button displays thumbnails of all Images that were downloaded during data capture. It also displays a list of the image files that were not downloaded.

Images can be viewed full size by tapping on the thumbnail to reveal the pan, rotate and print screen.



Figure 67 – Pan, Rotate and Print Image Screen

In this screen, tapping the image once causes it to rotate.

Drag the stylus through the “scroll image” area to pan left-right or up-down, (Arrow buttons are also provided for this purpose).

Tap the Print button to send a copy of the image to an attached USB Printer, (please refer to the “**Printing Reports**” section later in this chapter).

Double-tap the image to resize it so that the entire image can be seen.



Figure 68 – Resize Image Screen

Videos – This button displays all video files that were downloaded during data capture. It also displays a list of the video files that were not downloaded.

Downloaded videos can be viewed by tapping the file name.

Audio – This button displays all audio files that were downloaded during data capture. It also displays a list of the audio files that were not downloaded.

Like video, tapping the file name can play audio files.



Figure 69 – Play Video/Audio Screen

Other – This button displays all other files that were downloaded during data capture. The files are organized by type (i.e. .dat, .exe, .txt, etc.). It also displays a list of the other files that were not downloaded.

Standard Data – This button opens the Standard Data View Screen.

Displaying Previous Extractions

Previously extracted data files can be viewed by selecting “View Previous Extractions” from the main CellIDEK window. Previous extractions are organized by date. Additionally, the user can search for a particular extraction by one of these choices:

- Case Reference Number
- Exhibit ID
- ICCID Number
- IMEI Number

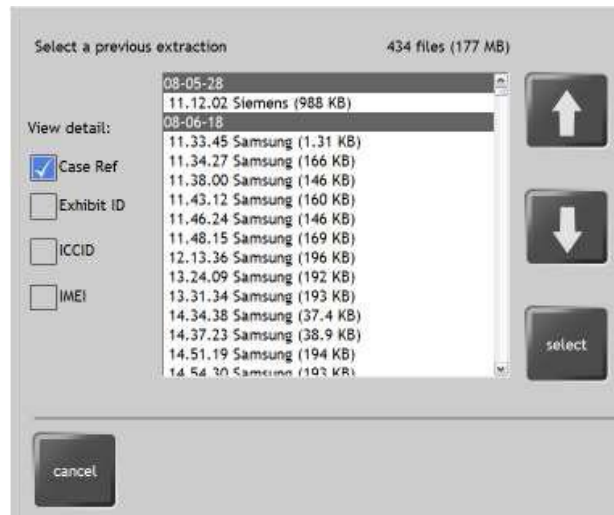


Figure 70 – Previous Extraction List

1. From the Main Application Screen, tap the **View Device History** button. A list of all previous capture sessions will appear.
2. Choose the desired search criteria from the **View Detail** list on the side of the screen.
3. Scroll to the desired capture session and tap it once to select.
4. Tap the **Select** button. The Standard and Extended Data Screens for that capture session will appear.

The Audit Trail

The audit trail is a set of two files that are generated along with the capture session.

Log.dat records all commands sent to and received from the target device. This includes AT commands.

Audittrail.txt records all data received from the target device.

All three files are stored and moved with the extracted data. They can be accessed once the capture session has been backed up to a USB storage device. They cannot be accessed from within CellDEK.

Please refer to **Chapter 5 – Other Features** for more information on backing up files.

NOTE: Logicube Technical Support may ask the user to send a copy of **log.dat** for troubleshooting purposes.

The Report

The Extraction Report is generated as both a **.csv** and an **.xml** file. This allows the report to be imported into many different database utilities such as Microsoft Excel, Access, Lotus Notes, etc.

NOTE: The csv data file only contains data for Device Info, Call Logs, Contacts, and Messages.

For backing up extraction data and reports to a PC, please refer to the “**Managing Files**” section of Chapter 5.



Figure 71 – Report Preview

Searching Reports

CellIDEK is able to perform a simple word search on any capture report. Follow these steps to run a word search:

1. When the Report preview appears, tap the Keyboard button to bring up the alphanumeric keyboard.
2. Type the desired search word into the search field and tap the Find button.
3. Alternately, you can choose words from a pre-loaded list to search. This method allows for more than one word to be searched simultaneously.
4. Tap the words in the search list to select them, then tap the Find button.

5. Whichever method is used, CellIDEK searches for the word(s) and displays the number of hits.



Figure 72 – Number of Hits

6. The report reappears with all word hits highlighted in yellow.

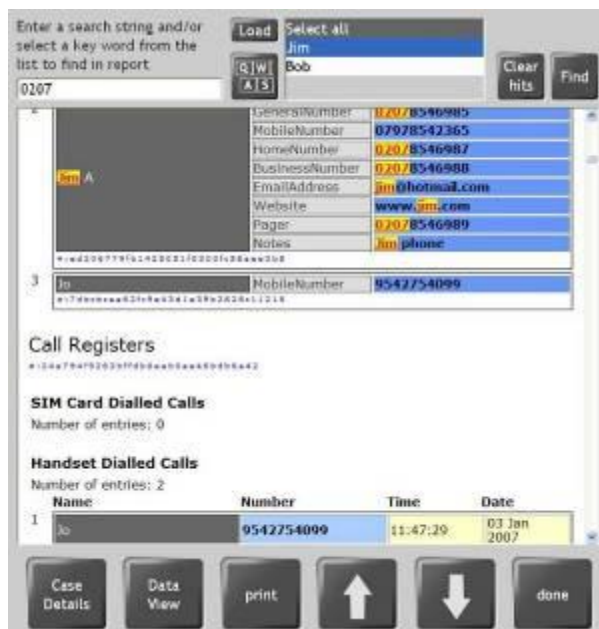


Figure 73 – Report with Found Words Highlighted

Loading a New Search List

The list of search words can be changed by importing a text file made on another computer:

1. On another PC, open Notepad or a similar text editor.
2. Type a simple list of words as shown in the next figure below. Words are not case sensitive so type in all lower-case.



Figure 74 – Text File of Search Words

33. Save the file as “CellIDEK report search.txt” and copy it to a USB storage device.
34. On the CellIDEK, bring up Preview Report and tap the Load button.
35. A prompt will appear asking for a USB Storage Device.

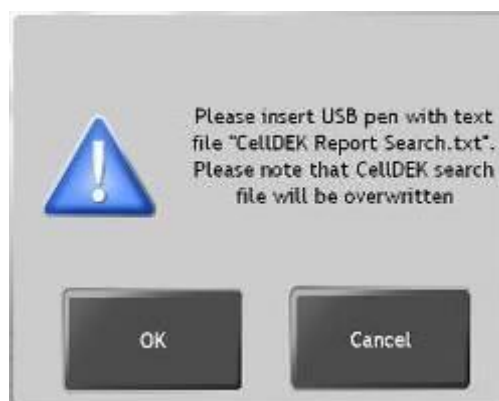


Figure 75 – Attach USB Device Prompt

36. Attach the USB Storage Device and tap the **OK** button. CellIDEK will automatically download the text file. The new search words will appear at the top of the screen.

Additional Report Searching Functionality

To highlight UNICODE ‘trigger’ words containing foreign characters a ‘CellIDEK Report Search.txt’ file needs to be created.

The file can be created using notepad and should include the ‘trigger’ word, followed by an arrow character (>), followed by the translation.

e.g. Couteau > Knife

Each entry should be stated on a new line and the file needs to be saved as Unicode format.

When the report is searched for the ‘trigger’ words, any hits will be highlighted and the translation will appear next to the word in square brackets.



Figure 76

NOTE: The reports can NOT be saved with the highlighted 'trigger' words. However, the report can be printed directly from the CellIDEK with the highlighted 'trigger' words and translations.

Printing Reports

CellIDEK is able to use a Windows-compatible USB printer to generate hardcopies of reports, print images and other tasks.

NOTE: If a search is performed on the report, the printed report will also show all found words highlighted in yellow.

Connecting a Printer to CellIDEK



Figure 78 – USB Printer

1. Power up the printer and insert paper.
2. Attach the printer's USB cable to the USB port on the CellIDEK Control Panel.
3. Tap the "Load Drivers Automatically" button that appears.

Once the USB printer is attached, reports can be printed from the Standard and Extended Data View Screens.

1. From the Standard/Extended Data View Screen, tap the "Case Details" button.
2. Make any changes (if necessary) to the Case Details Input Form and tap the OK button. A report will automatically generate.
3. Tap the "View Report" button to preview the report.
4. Tap the "Print Report" button to print a hardcopy of the report.

The report shows all information about the capture including target device information, standard data lists, extended data downloaded and lists of extended data not downloaded. It also includes a glossary of terms at the end of the report.

The report will also include the user's company logo if it is added. Please refer to **Chapter 5 – More Features** for more details on adding a logo.

NOTE: Some reports can be many pages long. Be sure to review the report before printing.

Supported Printers

CellIDEK supports any USB printer that is natively supported by Windows XP. Check with your printer manufacturer to determine if your printer supports Windows XP.

5. Other Features

Main Application Screen

This chapter discusses those features of the CellIDEK Application that were not covered in previous chapters.

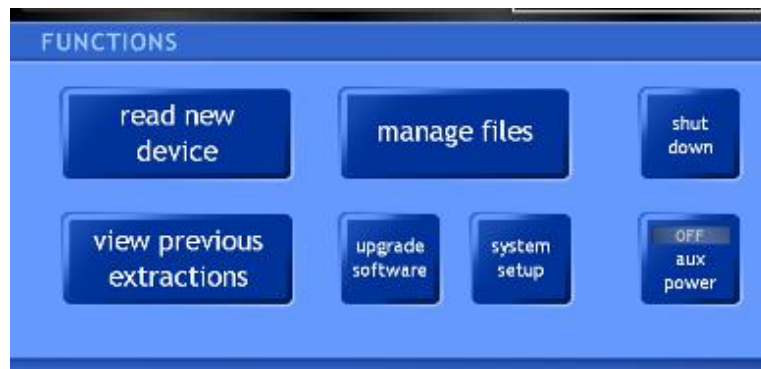


Figure 79 – Main Application Buttons

Manage Files

From time to time, previous capture sessions should be copied to an external storage device. This archives the data and frees up space in the CellIDEK memory storage. Note all handsets must be disconnected from CellIDEK prior to any file management tasks are performed.

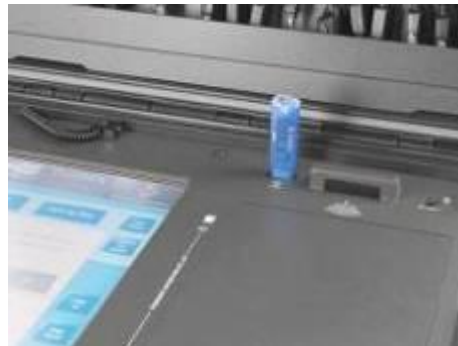


Figure 80 – USB Storage Device in Port

1. From the Main Application screen, tap the "Manage files" button.

2. The first prompt that appears asks whether the User wishes to Back-Up or Delete Files.

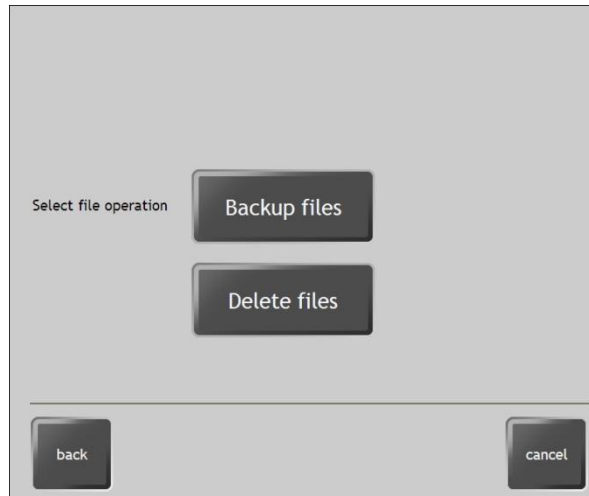


Figure 81a – Back-Up/Delete Files Selection

3. To 'Delete files', skip to step 11. If 'Backup files' is chosen, you will see the following selection choices.

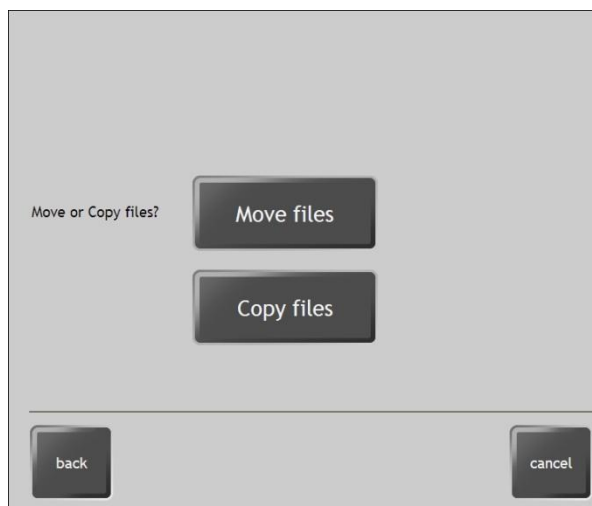


Figure 81b

4. No matter which button is tapped, two buttons will appear, "All files" or One by One".

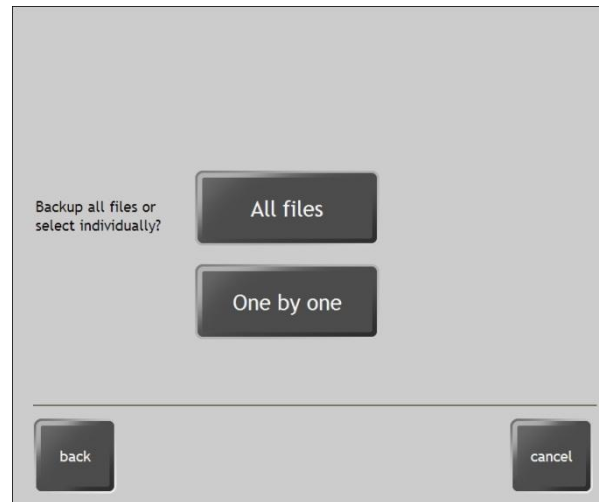


Figure 81c – Back-Up Files Selection

5. No matter which button is tapped you will be prompted to insert a USB thumb drive.

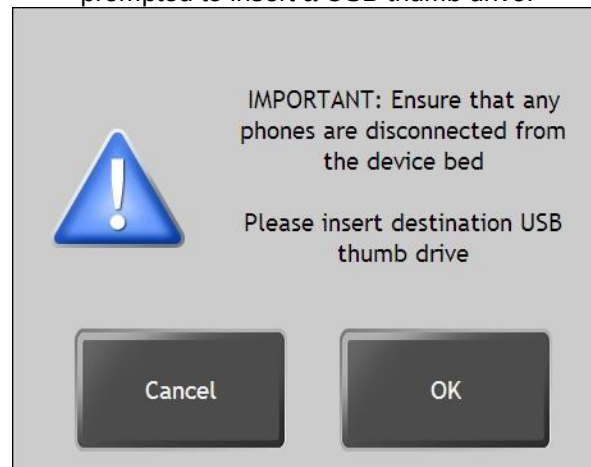


Figure 81d

6. For Multi-Partition drives the following selection will be displayed. Choose the appropriate storage partition and then tap OK.

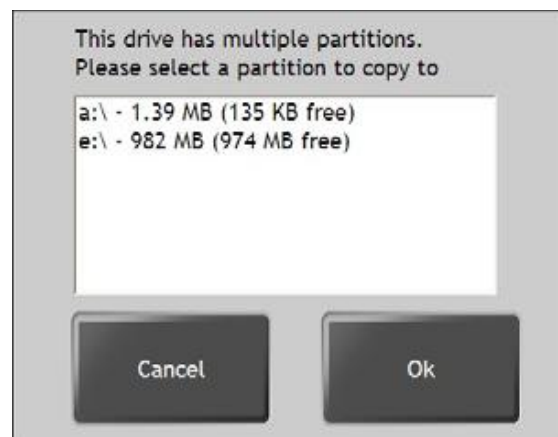


Figure 81e

7. If the storage drive has a partition that is not accessible the message shown below will be displayed.



Figure 81f

8. Encrypted drives usually have an active partition that contains the password entry application. Below is an example of this type of application. It is called DTVP_Launcher.exe.



Figure 81g

Warning: Please ensure that the above named executable application is from a trusted source. By selecting continue the operator accepts full responsibility for running the named executable and its action.

9. The drives encryption software will then be run and a keyboard will appear automatically for password entry.



Figure 81h

NOTE: The encryption software on your Thumb drive may appear different to the example shown above.

The following makes of encrypted drives have been tested:

- Hypertec
- Transcend
- Kingston

10. Tap OK on the dialog screen shown in to continue to the file selection screen. Files can then be

selected, Moved or Copied to the thumb drive as normal.



Figure 82

11. If the Erase software is loaded on the CellIDEK, the data will be completely erased from the unit's hard drive when 'Delete files' is chosen.

NOTE: For more details about Erase, please refer to the "Security Erase" section later in this chapter.

12. If the "All files" button is tapped, all of the stored data from capture sessions can be moved or copied to a USB storage device or deleted. The activity log will show files copied.
13. If the "One by One" button is tapped, a list of all previous capture sessions will appear. The list looks similar to Figure 83 below:

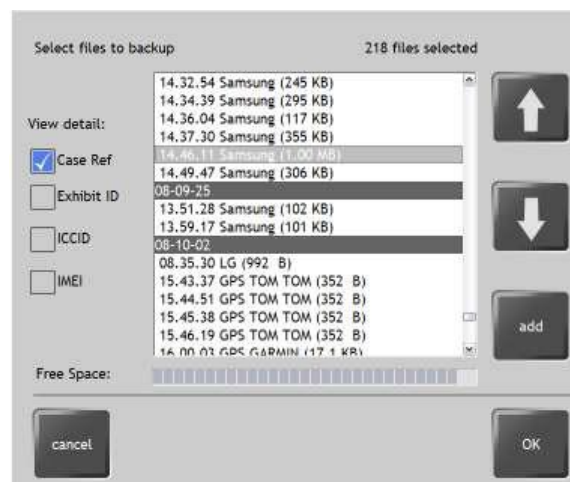


Figure 83 – Previous Extraction List

NOTE: The "Free Space" bar underneath the file list shows the amount of free space available on

the USB Flash Drive where the files are to be backed up.

14. Whether the user is downloading all files or one at a time, CellIDEK will ask to move or copy the selected files.



Figure 84a – Move or Copy Files

15. If “Move” is pressed, every selected file will be moved to the USB storage device. The file will then disappear from the list. Repeat this step for every file that needs to be copied.
16. If the Erase software is loaded on the CellIDEK, the data will be completely erased from the unit’s hard drive as it is moved to the USB device.

NOTE: For more details about Erase, please refer to the “Security Erase” section later in this chapter.

NOTE: Keeping many previous extractions on the CellIDEK will cause a delay during the boot process. It is recommended to back up old extractions from time to time.

Extraction File Backup to CD

To be able to backup extracted report files to a writeable CD, a writeable CD drive is required.

Connect the writeable CD drive to the CellIDEK through the USB port before selecting the manage files option.

Select manage files and choose Backup files then Copy files and One by one. To ensure data is not lost during the burning process CellIDEK will not allow files to be moved onto a CD drive. If move is selected then a message is displayed and the copy option is selected as the default.

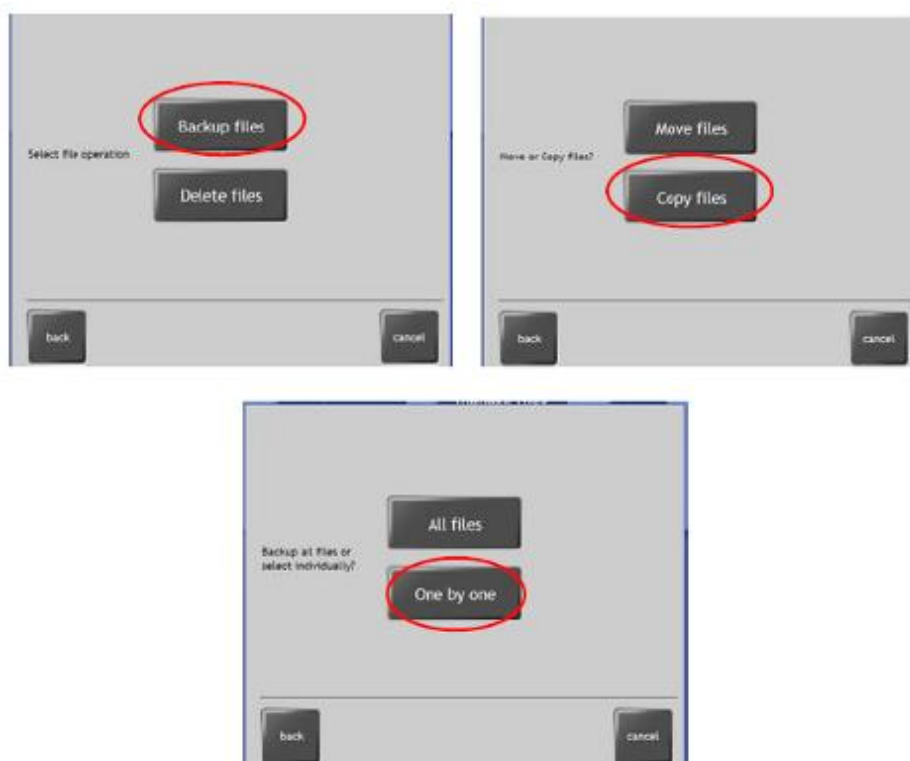


Figure 84b – Move or Copy Files

A message box will appear requesting the user to select either burning files to the CD or a removable USB pen drive.



Figure 84c – Burn Files to CD

You will then be prompted to select the files to copy. The free space indicator will show available disk space. Once all required files are selected, tap ok, the requested files are then queued for writing to the CD.

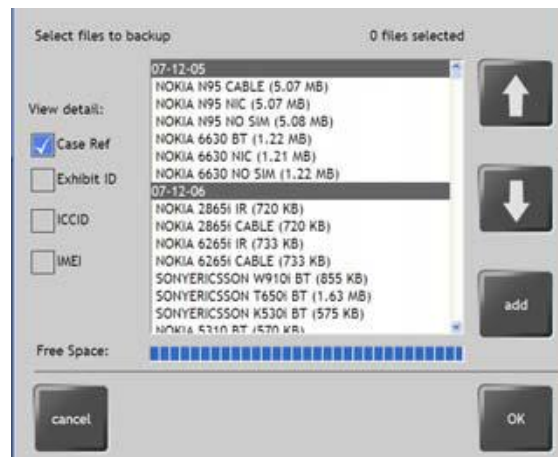


Figure 84d – Select Files to Burn

A dialog then appears allowing you to name the disk then tap next.



Figure 84e – Name the Disk

If no disk is inserted in the drive a dialog will appear telling you to insert a disk into the writable CD drive. The burn process will then start. When the files have been copied the following dialog will appear.



Figure 84f – Copy of Files Complete

Tap Finish to complete the process.

Upgrade Software

As new cell phones, PDA's and other devices are developed, the CellIDEK application software will need to be updated from time to time.

1. Insert the USB storage device into the USB port of CellIDEK
2. From the Main Application Screen, tap the "Upgrade Software" button.
3. Follow the screen prompts carefully. The software update files will automatically copy from the USB

storage device and install themselves on the CellDEK .

4. The CellDEK will then ask to be restarted. After the restart, the new software will be installed.

iTunes Information and Updates

Your CellDEK came shipped with the supported version of iTunes for the version of CellDEK software loaded. Do not install versions of iTunes that are not supported by the CellDEK software release. The CellDEK software release notes will mention which version of iTunes must be installed, if a newer version is required. If it is necessary to update iTunes, follow these instructions:

IMPORTANT NOTES:

- Before proceeding with updating iTunes, please make sure that the AC adapter is connected to the CellDEK.
 - Please follow the directions below completely. In order for CellDEK to work properly with iTunes, there are screens during the installation that require certain options set differently from the default options.
1. Download the supported release of iTunes (this may not be the current release from Apple). If a new version of iTunes is required, the supported version of iTunes will be mentioned in the software release notes.
 2. Rename the file to: **Update.exe** and copy the files to a USB thumb drive. The files must be in a folder called "CellDEK Update" (case sensitive, without the quotes) on the root of the USB thumb drive.
 3. From the CellDEK Main Application Screen, tap the **Upgrade Software** button.
 4. You will be prompted to insert the upgrade key. Attach the USB thumb drive to the USB port of the CellDEK. Wait a few moments to make sure the USB thumb drive loads properly then tap the **OK** button.
 5. The file will automatically download from the USB thumb drive and the CellDEK will restart.
 6. After the restart, the iTunes setup will begin. The iTunes setup is a manual process in which you will have to perform certain tasks such as tapping the "Next" or "OK" buttons.

7. You may see the following message below. If you do, tap **Yes**.



Figure 86a

8. Tap **NEXT** on the first screen of the installation wizard.



Figure 86b

9. The next screen may or may not appear. If it does, tap **I accept the terms...**, then **NEXT**.



Figure 86c

10. On the next screen, uncheck all three of the options, then tap **INSTALL**.



Figure 86d

11. On the next screen, it will mention that **AutoRun is turned off**. Tap **NO**. You **do not** want iTunes to turn AutoRun on.

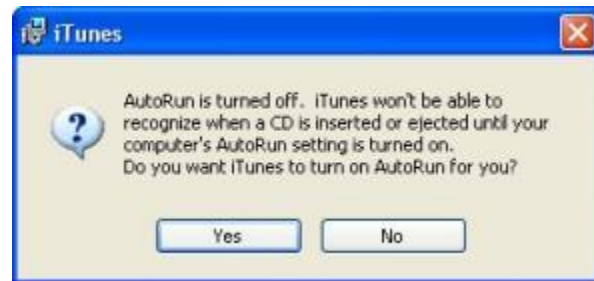


Figure 86e

12. The installation will begin. This process may take a very long time. Please do not turn off the device during this process.



Figure 86f

13. On the last screen of the wizard, **uncheck** the box next to "Open iTunes after installer exits". Tap **FINISH**.

**Figure 86g**

14. The CellIDEK will then reboot. At this point, iTunes will have been updated.

iPhone Support – User Application Notes

Introduction

The iPod touch, iPhone 2G, 3G and 3GS are supported on CellIDEK. In order to extract the data from an Apple device, iTunes must be installed on the system*.

Periodically Apple release iTunes software updates that are available for download from the Apple website. Apple also release periodic iPhone software updates for the iPhone device operating system that is installed through iTunes. Newer versions of iTunes may not have been tested by Logiccube yet. Please contact Logiccube Technical Support to find out which version of iTunes is supported.

Note: the iPhone extraction button will only be displayed in the CellIDEK software when a version of iTunes is available on the system.

IOS 5.x

Data from iPhones with iOS 5.X has been fully validated by Logiccube. Please check the software version's release notes for the version of iTunes required.

Error message: Cannot find .plist

When an iPhone is connected to CellIDEK or CellIDEK TEK that has iTunes installed, a unique identifier file is created and stored in the local windows system folder.

This file is referred to as a .plist file and is used by the CellDEK software to communicate with the device directly.

When Apple launched support for the iPhone 3GS and iPhone OS 3.0 in iTunes version 8.2 the storage location for this .plist identifier file was changed. If a newer iTunes version was used in conjunction with CellDEK 1.14 the device would fail to connect and result in an error message on connection: 'cannot find .plist'.

The CellDEK software version 1.15 was released shortly afterwards and the new .plist storage location was included to allow the support for any device running the new iPhone software version 3.0 (including iPhone 3GS). Devices that had iPhone OS version 3.x can only be extracted on CellDEK when the iTunes version 8.2 - 9.x is installed.

Error message: Couldn't find backup files

The latest release of iTunes (at the time of this writing) is version 10.0.x. Further changes have been made by Apple, in this version, which affects the CellDEK apple device connection. When extracting an iPhone on a CellDEK or CellDEK TEK running version 1.16 (or below) in conjunction with iTunes 9.1.1 the error message 'couldn't find backup files' will be displayed shortly after connection.

Future releases from Apple

Every effort has been made to ensure that the CellDEK software is compatible with the latest iPhone version, although, it may be necessary to install future updates of the iTunes software on CellDEK to enable the support of any future iPhone OS releases.

If the user feels it absolutely necessary to install the latest version of iTunes on CellDEK and problems are encountered with the CellDEK functionality, the software should be uninstalled and the supported version can be reinstalled.

IMPORTANT NOTE: When uninstalling iTunes, the Apple Mobile Device Support driver must also be uninstalled separately.

Apple iPhone Pop-Up Window

When attaching an iPhone to the CellDEK, an Apple iPhone pop-up window may appear. The pop-up window asks you to "select the program to launch for

this action". Follow the steps below to remove this window permanently.



Fig. 86h – Apple iPhone pop-up window

Apple iPhone pop-up window removal instructions

1. Reboot the CellIDEK and log on to Windows. The End User License Agreement (EULA) should appear. Do not click the OK button and do not close the window.
2. Double-tap the **Hide Start Bar** icon on the desktop. The Windows Start button should appear on the bottom left of the screen.
3. Tap the **Start** button then tap **My Computer**. The My Computer window should appear.
4. Attach the iPhone to Cable 31 and attach Cable 31 to the CellIDEK's Phone Connector socket. After a few seconds, an icon should appear under Scanners and Cameras. Tap the new icon to highlight/select it.



Fig. 86i – Scanners and Cameras

5. With the iPhone highlighted, tap **File** in the menu system, then tap **Properties**.

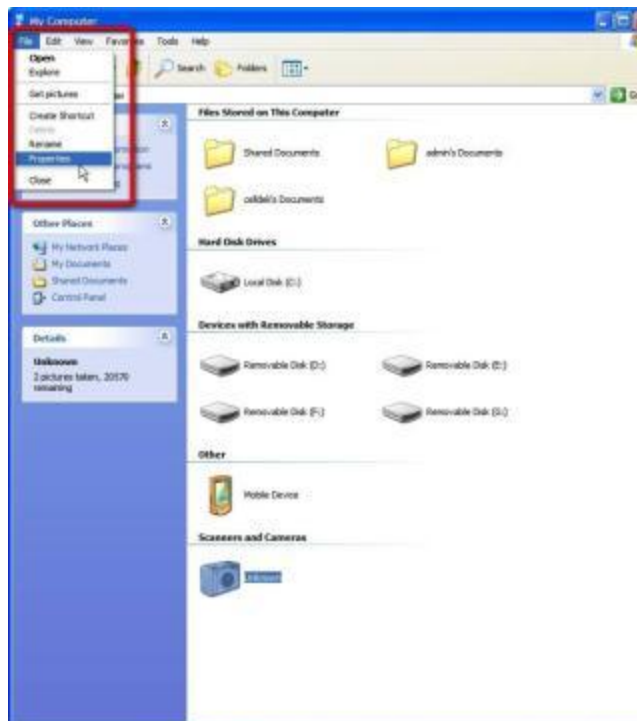


Fig. 86j – Properties menu

6. The Properties window should appear. Tap the **Events** tab. Make sure that 'Select an event' is set to **Camera connected** and the "Action" is set

to **Take no action**. Tap OK to close the window and save the changes.

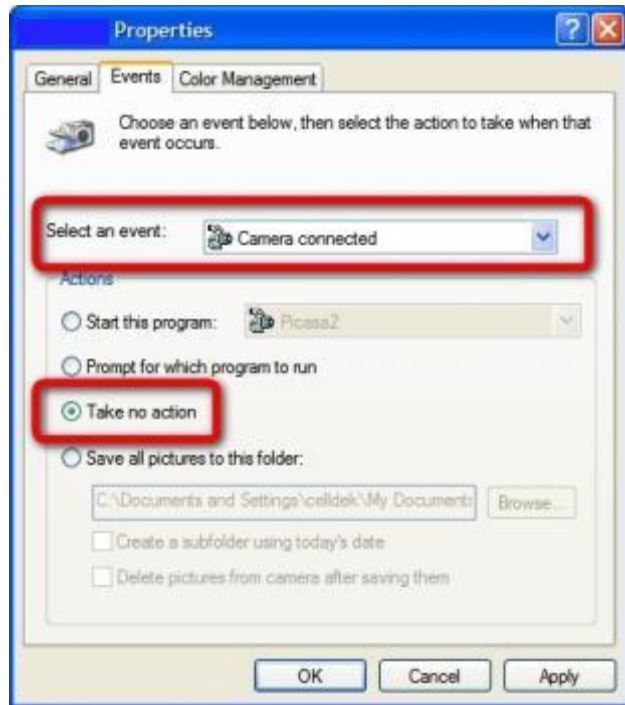


Fig. 86k – Properties window

7. Disconnect the iPhone and Cable 31 from the CellIDEK. Place Cable 31 back on the CellIDEK rack.
8. Accept the EULA and the CellIDEK software should start.

System Setup

The System Setup brings up a Setup Menu like Figure 87 below:

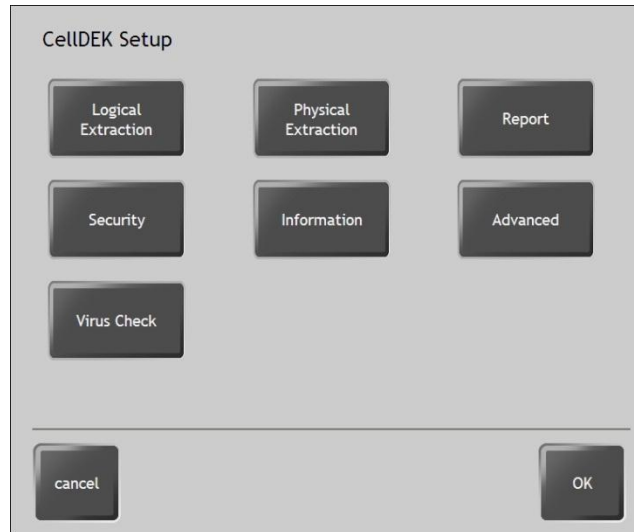


Figure 87 – System Setup Menu

Logical Extraction

Tapping this button brings up the Logical Extraction settings screen.

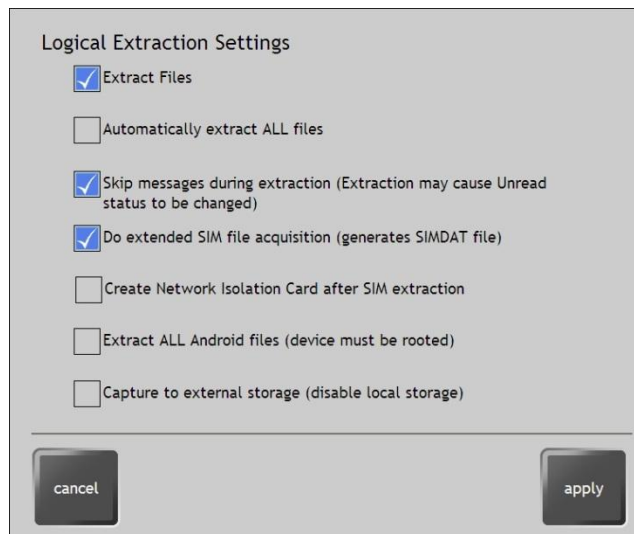


Figure 88a – Extraction Settings Menu

Extract Files – Checking this box will cause CellIDEK to extract the target device's file listing.

Automatically Extract All Files – Checking this box will automatically download all Extended Data files

without prompting the user. This includes all image, video, audio and other files.

Skip Messages During Extraction – Checking this box gives the option to skip unread SMS messages during extraction. During a capture session, the following prompt will appear:



Figure 89 – Skip Unread SMS Prompt

The prompt gives the user 15 seconds to skip or download unread SMS messages. If none of the buttons are pressed, then the messages are skipped.

Do Extended SIM file acquisition – This feature will pull all available data off of the SIM card.

Create Network Isolation Card after SIM Capture – Checking this box will allow selective SIM data to be copied post SIM extraction to a target Network Isolation Card (NIC). The newly created NIC installed in the handset and contains enough information to appear to be the original SIM card, but it will not have the necessary information to allow the handset to connect to the network. This effectively provides Network Isolation for the phone. For additional information please refer to the supplied NIC v3.0 User Notes.

Extract ALL Android Files – When checked, and the Android device is rooted, ALL file locations will be extracted. Please note this may take a long time to complete the extraction.

If the device is not rooted, only the following file locations will be extracted:

/sdcard/

If the device is rooted and the checkbox for 'Extract ALL Android files' is not checked, only the following file locations will be extracted:

/sdcard/
/data/data/

/data/misc/

Capture to external storage – CellIDEK 1.18.0.0 and newer versions support capturing data directly to a USB thumb drive. When this selection is checked and you perform a new extraction by tapping '**Read New Device**', you will be asked to choose where the extraction files should be stored.

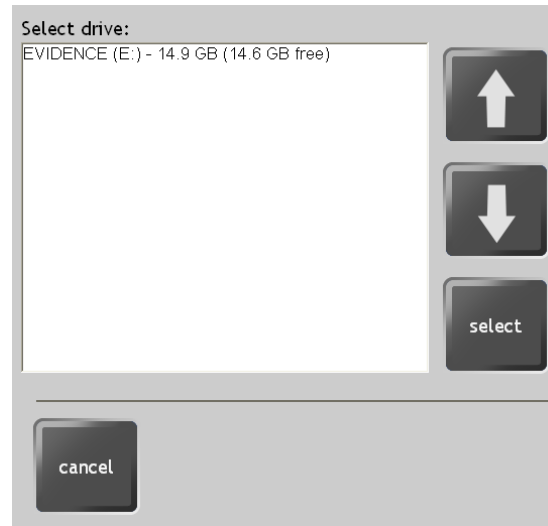


Figure 90 – Drive Selection Screen

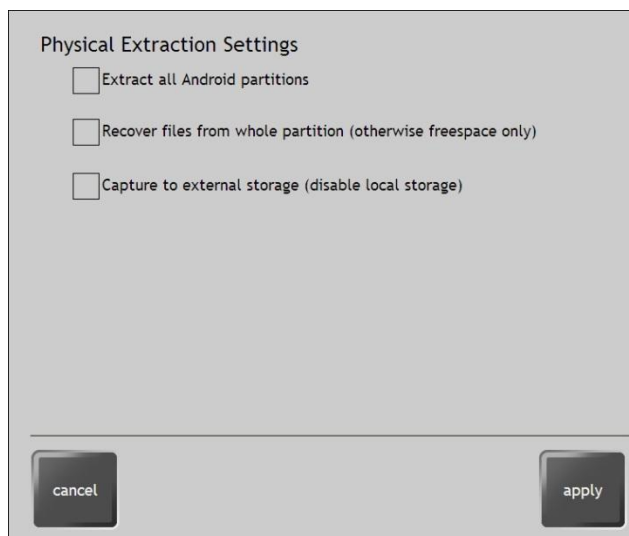
Once a drive is selected, CellIDEK will continue with the extraction process as normal. CellIDEK will store the extraction files in the following directory: '[DRIVE]:\CellIDEK\Datafiles\'.

CellIDEK is capable of detecting encrypted thumb drive software which it will execute allowing you to enter the encryption password. Once the password is entered correctly the drive will appear in the list above.

To view previous extractions which were stored directly on a USB thumb drive, enable '**Capture to external storage**' in Extraction Settings, and then select 'View previous extractions'. You will be asked to choose where the extraction files are stored (which drive they are on). Once you have done this, CellIDEK will list the previous extractions stored on the thumb drive for you to choose from.

Physical Extraction

Tapping this button brings up the Physical Extraction settings screen.



Extract all Android partitions – When checked, and the Android device is rooted, ALL partitions will be extracted.

Recover files from whole partition – This option attempts to recover files from the different partitions.

Capture to external storage – This option allows you to save the captured data to an external storage device such as a USB flash drive or USB external drive.

Report Button

Tapping this button brings up the Report Settings screen. Checked items are represented by a blue box.

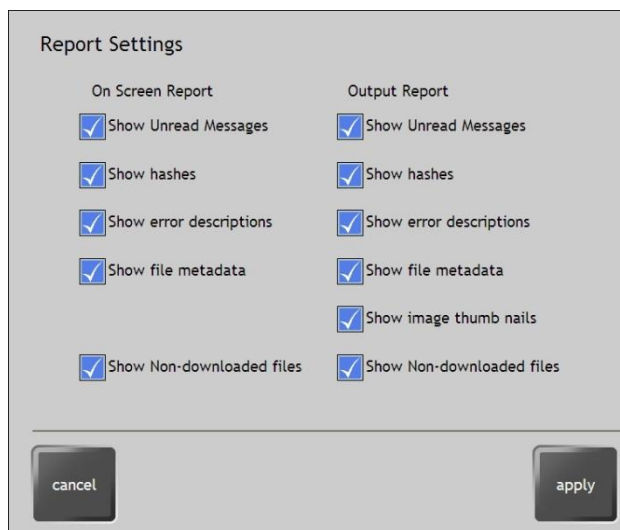


Figure 92 – Report Settings Menu

On Screen Report Settings

Show Unread Messages – Un-checking this box prevents CellIDEK from showing any unread SMS messages on screen. This setting can be used for any phones that change extracted unread messages to read status.

Show Hashes – Checking this box will display the MD5 Hash Value for all extracted data files.

Show Error Descriptions – Checking this box will show detailed error descriptions for any failure to extract data. If unchecked, failure messages will read: "An error occurred during the extraction of this section of data".

Show Image Metadata – Checking this box will include metadata information with any downloaded images. Fig. 92 shows an example of this:

Downloaded Image Files
Number of entries: 3

File Name	File Path	Size
1 Image1.JPG	\My Documents\My Pictures\	128037
Timestamp		
Copied to CellIDEK	DataFiles\07-12-20 15:53:59 Win\000000.JPG	
Preview		
Metadata	Camera Make: Canon Camera Model: Canon DIGITAL IXUS Date/Time: 2001:06:09 15:17:32 Width x Height: 640 x 480	
File Hash	d5d5c4c868f21bf2f307075551120e0f	

Figure 93 – Image Thumbnail with Metadata

NOTE: All metadata may not be retrieved from every image extraction.

Show Non-downloaded Files – Un-checking this box replaces the list of non-downloaded files on the screen with a statement that the user has chosen not to show non-downloaded data.

Output Report Settings

Show Unread Messages – Un-checking this box prevents CellIDEK from showing any unread SMS messages on the report.

Show Hashes – Checking this box will display the MD5 Hash Value for all extracted data files.

Show Error Descriptions – Checking this box will show detailed error descriptions for any failure to extract data. If unchecked, failure messages will

read: "An error occurred during the extraction of this section of data".

Show Image Metadata – Checking this box will include metadata information with any downloaded images on the report.

Show Image Thumb Nails – Checking this box will show thumb nail images of any downloaded image files on the report.

Show Non-downloaded Files – Un-checking this box replaces the list of non-downloaded files on the report with a statement that the user has chosen not to show non-downloaded data.

Security Button

This button is activated if the Erase program is loaded on the CellIDEK. A single menu choice will appear that asks if secure erase should be used when deleting case files.

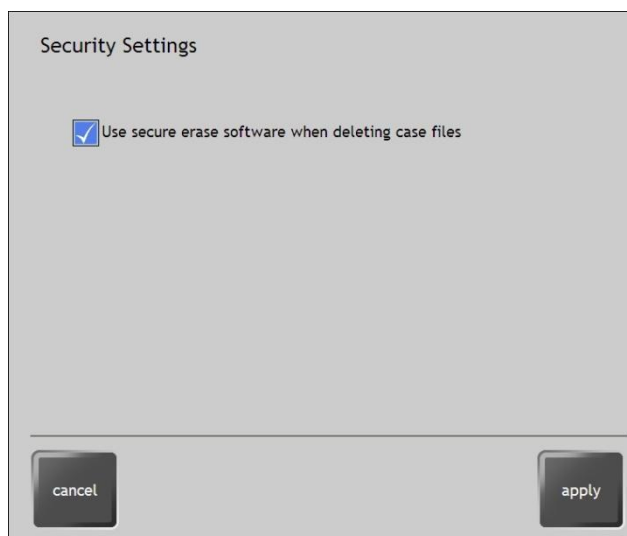


Figure 94 – Security Settings Menu

If "Use secure erase" is checked, a prompt appears asking the user to change or accept default settings.

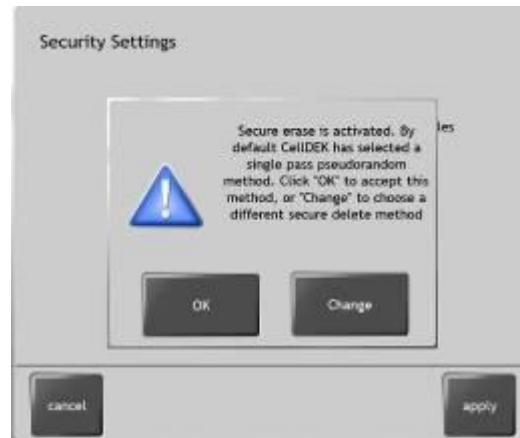


Figure 95 – Secure Erase Default Prompt

If Change is tapped, another prompt appears asking the user which level of security erase should be used.



Figure 96 – Secure Erase Settings

The settings are:

Pseudo – Erase performs a single pass over the data and writes a pattern of random characters over it.

Gutmann – Erase copies an alternating random pattern 35 times over the data. This verifies that all magnetic traces of the data is gone.

US DoD 5220.22-M – Erase copies an alternating random pattern 7 times over the data. This level of erase conforms to DoD (Department of Defense) specifications.

Security Erase

CellIDEK utilizes a third party utility called Eraser by Heidi Computers, Ltd. This utility is installed separately from the CellIDEK software and is available as a part of software update 1.8.1.0.

CellIDEK automatically detects Erase when it is installed on the unit and activated in the Security Settings Menu.

Information Button

Tapping this button will bring up a screen that shows Logiccube Technical Support contact information.

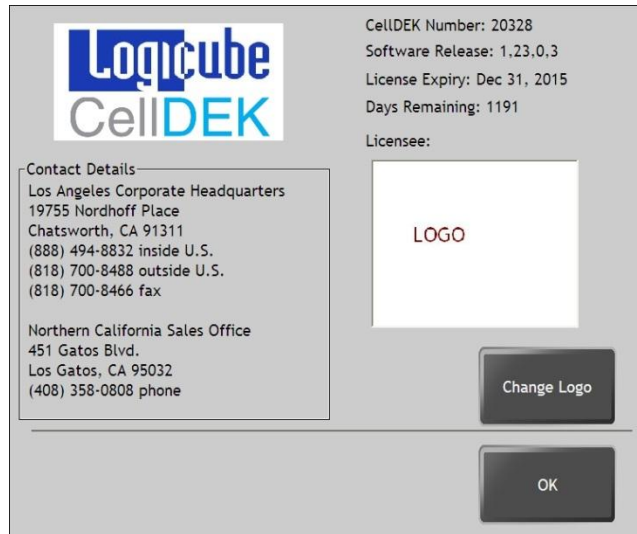


Figure 91 –CellIDEK Information Screen

It also allows the user to insert his or her company logo into the printed reports.

1. On the user's PC, rename the logo to **LOGO.jpg**. Make sure that it is less than 1MB in size.

NOTE: The logo's name is case sensitive, so it needs to be written exactly as LOGO.jpg.

2. Copy the logo to the root directory of a USB storage device.
3. In the "About CellIDEK " Screen, tap the "Update Logo" button.
4. Insert the USB storage device into the USB port.
5. Tap the OK button.
6. The logo will be automatically copied to CellIDEK and overwrite any existing logo.

Virus Check

A virus check option has been included within the system setup menu. The user can now run a malware removal tool to check for virus infection.

See the section "Virus Checker" in Chapter 2: Getting Started for more information.

Auxiliary Power Port

CellIDEK has an extra 12VDC power port that is located next to the IR Emitter on the control panel. This port can be used to power such devices as a light source or external jammer.

From the Main Application Screen, tap the “Aux Power” button to turn the port on or off. The button will display the on/off status.

Shutting Down CellIDEK

The system can be shut down directly from the Main Application Screen. Tap the “Shut Down” button and confirm the action. CellIDEK will automatically power itself down.



Figure 97 – Shutdown Screen

Standby Mode

Additionally, closing the lid of CellIDEK while it is powered will send the embedded PC into Standby Mode. When the lid is opened again, the embedded PC will come back up out of standby mode.

NOTE: Once the lid is closed, DO NOT re-open the lid until CellIDEK emits “USB Logoff” tones. Otherwise, CellIDEK will “hang”. If this happens, shut down the unit and wait 30 – 60 seconds before powering it back up.

6. Glossary and Troubleshooting Guide

Supported Manufacturers

CellIDEK is able to directly support many different wireless devices. Many of these major brands are supported now or will be in the near future:

Nokia

Motorola

Sony Ericsson

Samsung

Siemens

Audiovox

Kyocera

Palm

LG

Sanyo

Blackberry

Windows

Apple iPhone

HP iPAQ Satellite Navigation Device

TomTom Satellite Navigation Devices

Garmin Satellite Navigation Devices

Glossary

SIM (Subscriber Identity Module) - Essentially a small computer on a card that sits within the mobile phone and controls various functions of call making. It also has enough memory to hold information such as ADN and SMS.

ADN (Abbreviated Dialing Numbers) - more commonly known as the phonebook or contacts.

SMS (Short Message Service) – SMS is a form of textual conversation permitted by a network carrier. The service allows a user to send and receive textual messages direct to their handsets.

The storage capacity depends on the handset and SIM. The date and time of received messages is generated by the network, all other date and time stamps are generated from the handset time. The maximum character length is 160 per SMS. Some handsets allow longer messages to be compiled and therefore are split into relevant parts when sent, these messages are known as concatenated.

Deleted SMS (Short Message Service) - These are text messages that have been deleted from the SIM card by the cellphone user. However, most mobile phones do not remove the message, but mark the message to be overwritten by incoming messages from the network.

MMS (Multimedia Messaging Service) – A service which allows Multimedia messages to be sent from one mobile to another via one or more call centres or network providers. A Multimedia message is stored on the handset and can contain a combination of text, video clips, images and sound clips.

ICCID (Integrated Circuit Card Identifier) - The serial number of the SIM card stored electronically within the SIM. A similar number or shortened version is often found printed on the SIM card.

IMEI (International Mobile Equipment Identifier) - This is a unique number given to each handset. This is usually printed somewhere on the handset, (typically in the battery compartment) and stored electronically in the phone handset memory. It can be viewed typing `*#06#` on the keypad.

PIN (Personal Identification Number) - The SIM card has been locked against unauthorized access using the PIN number. When PIN security is activated, the correct PIN number must be entered in order to use any of the features of the handset (make calls, access ADN etc.) The only calls that can be made without a PIN are calls to the emergency services.

PUK (Personnel Unblocking Key) - If the PIN is unknown the PUK is used to unblock the SIM card and enable a new PIN code to be entered.

MSISDN (Mobile Station ISDN Number) - This number is the standard international number used to identify a given subscriber. However, the number stored in the MSISDN location on a SIM Card can be changed without affecting the actual telephone number. Therefore, the MSISDN number downloaded from the SIM card can only be used as an indicator.

IMSI (International Mobile Subscriber Identity) – This is a unique number allocated to each mobile phone subscriber, stored electronically within the SIM Card. It is used by the network to look up the telephone number associated to the SIM Card.

GSM (Global System for Mobile Communications) - a digital mobile telephone system that is widely used in Europe and other parts of the world. GSM uses a variation of time division multiple access (TDMA) and is the most widely used of the three digital wireless telephone technologies (TDMA, GSM, and CDMA).

CDMA (Code Division Multiple Access) - refers to any of several protocols used in so-called second-generation (2G) and third-generation (3G) wireless communications. As the term implies, CDMA is a form of multiplexing, which allows numerous signals to occupy a single transmission channel, optimizing the use of available bandwidth. The technology is used in ultra-high-frequency (UHF) cellular telephone systems in the 800-MHz and 1.9-GHz bands.

TDMA (Time Division Multiple Access) - is a technology used in digital cellular telephone communication that divides each cellular channel into three time slots in order to increase the amount of data that can be carried.

Cluster The smallest block of memory in a drive that can be written to individually by the file system.

Allocation table Table that keeps track of the contents of each cluster on the drive. The allocation table is used to combine clusters in the correct order to construct the files in the file system.

Allocated space Any cluster that is being used to store a file and has a written entry in the allocation table

Unallocated Space Any clusters that have an empty entry in the allocation table (i.e. are not assigned to any file) and are marked as being available for over writing by the file system.

Extant File A files that is still active in the file system and has appropriate entries in the allocation table to be reconstructed.

Contiguous File A file stored using clusters that are located next to each other in the drive's memory.

Troubleshooting Guide

CellIDEK fails to power up/ no lights on connector rack on power up.	The CellIDEK battery may be flat. Try connecting the charger. NOTE: the embedded PC may still have power when the internal battery does not. No light on the connectors indicates a flat internal battery. The lights should illuminate when the charger is inserted.
Dimensions entered do not display correct phone	Re-measure and re-enter dimensions by adjusting them slightly. NOTE: The phone may not yet be included in the identification module
Cell phone not listed or no image can be found.	Phone may not yet be supported by the identification module. Select a similar device from the listing and use IR or Bluetooth ONLY. Damage to the handset can occur by selecting the wrong cable for a device and is not recommended. NOTE: The device make and model reported is obtained from the phone not based on the device selected from the identification module.
Infrared discovery failed	Ensure infrared is active on target device and IR window is aligned with the CellIDEK's pickup sensor.
Bluetooth extraction failed	Ensure Bluetooth is active on target device and device is in discoverable mode. Also, device may be asking for a 4-digit code number or file acceptance on screen during the extraction.
Connector not lit	Ensure cable is replaced correctly and retry then reboot the CellIDEK if problem persists.
No cable connection method offered	Ensure all connectors are correctly inserted into the storage rack and reboot the CellIDEK.
No battery monitor onscreen	Connection to hardware com port suspect - reboot CellIDEK. NOTE: Connector lights should go out as the CellIDEK software opens thus indicating hardware

	com port success.
CellDEK application freezes continuously	Hold power switch in the 'on' position for a few seconds until shutdown. Wait for unit to emit "beeps" before releasing switch.
SIM card read fail	Ensure SIM is correctly inserted and in the correct orientation.
'SIM PIN required' message	Enter PIN code. If entered incorrectly 3 times PUK will be required.
'SIM PUK required' message	Contact carrier/provider to obtain PUK code.
CellDEK fails to read memory card	Ensure card is inserted correctly. Reboot CellDEK.
SIM Card LED goes out	If problems persist, hold power switch in the 'on' position for a few seconds until shutdown. Wait for unit to emit "beeps" before releasing switch.
CellDEK unit freezes or crashes	Hold power switch in the 'on' position for a few seconds until shutdown. Wait for unit to emit "beeps" before releasing switch.

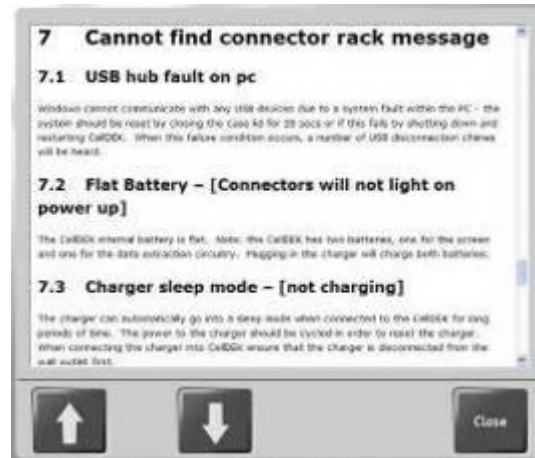
Error Messages

If an error message occurs during CellDEK use, a small "Help" icon appears in the corner of the error.



Figure 97 – Help Icon Location

Tap the Help Icon to bring up a description of the error message and possible solutions.

**Figure 98 – Error Message Help Window**

7. Supported Handsets

Handsets tested on CellIDEK and the results verified

These handsets are assigned a green tick next to their image on CellIDEK.

The following handsets have been tested on CellIDEK using the standard validation procedures of Logicube. The results below display the data sets that can be extracted from CellIDEK for the specific handset. There may be additional data sets available from handsets and these will require further examination.

Key:

Phone ID		SMS	
Phone ID w timestamp		SMS w timestamp	
Contacts		MMS	MMS
Call Logs		Files	
Call Logs w timestamp		Organizer	

- Handsets that appear with no cable number assigned are supported via Infrared or Bluetooth methods.
- Cable Number 999 refers to the external Nokia CA-42 cable

No.	Manufacturer	Model	Phone ID	Contacts	Call Logs	Messages	Files	Organiser	Mobile Standard	Cable No.	Date Added
1	ACER	beTouch E101							GSM	9	Jan-10
2	ACER	F900							GSM	9	Jan-10
3	ACER	n50							GSM		Jul-06
4	ACER	X960							GSM	9	Oct-09
5	ALCATEL	OT-C707							GSM		Apr-08

												
6	AMOI	WP-S1								GSM	9	Apr-09
7	ANDROID	G1								GSM	9	Jul-08
8	APPLE	iPhone								GSM	31	Oct-08
9	APPLE	iPhone 3G								GSM	31	Oct-09
10	APPLE	iPhone 4								GSM	31	May-11
11	APPLE	iPad								N/A	31	Sep-12
12	BENQ	E72								GSM	9	Jan-09
13	BENQ	P50								GSM	9	Jul-06
14	BENQ SIEMENS	EF81								GSM		Apr-07
15	BENQ SIEMENS	S68								GSM		Jul-06
16	BENQ SIEMENS	S88								GSM		Jul-07
17	BLACKBERRY	7230								GSM	9	Apr-08
18	BLACKBERRY	7250								GSM	9	Jul-07
19	BLACKBERRY	7290								GSM	9	Jan-07
20	BLACKBERRY	8100								GSM	9	Jul-07
21	BLACKBERRY	8120								GSM	9	Jan-09
22	BLACKBERRY	8300								GSM	9	Jan-09
23	BLACKBERRY	8310								GSM	9	Jul-08
24	BLACKBERRY	8320								GSM	9	Apr-08
25	BLACKBERRY	8330								CDM A	9	Jan-09
26	BLACKBERRY	8520								GSM	26	Jan-10
27	BLACKBERRY	8800								GSM	9	Jan-10
28	BLACKBERRY	8800								GSM	9	Oct-08
29	BLACKBERRY	8820								GSM	9	Apr-08
30	BLACKBERRY	8830								CDM A	9	Oct-08
31	BLACKBERRY	8900								GSM	26	Jul-09
32	BLACKBERRY	9000								GSM	9	Jan-09

33	BLACKBERRY	9500							GSM	26	Jul-09
34	BLACKBERRY	9530							GSM	26	Jul-09
35	BLACKBERRY	9700							GSM	26	Sep-10
36	BLACKBERRY	7100t							GSM	9	Apr-06
37	BLACKBERRY	7100v							GSM	9	Apr-06
38	BLACKBERRY	7100x							GSM	9	Apr-06
39	BLACKBERRY	8700f							GSM	9	Jan-07
40	BLACKBERRY	8700g							GSM	9	Jan-07
41	BLACKBERRY	8700v							GSM	9	Oct-07
42	BLACKBERRY	8707g							GSM	9	Oct-09
43	BLACKBERRY	8707v							GSM	9	Jul-07
44	BLACKBERRY	9780							GSM	26	Dec-11
45	BLACKBERRY	9800							GSM	26	Dec-11
46	BLACKBERRY	9650							GSM	26	Dec-11
47	DELL	AXIM X51v							GSM		Oct-06
48	E-TEN	P300B							GSM		Oct-07
49	GLOFIISH	M810							GSM	9	Oct-09
50	GLOFIISH	X600							GSM	9	Oct-08
51	HP	iPAQ 514							GSM	9	Oct-07
52	HP	iPAQ H5550							GSM		Jul-06
53	HP	iPAQ HW6915							GSM		Oct-06
54	HP	iPAQ rx1950							GSM		Jul-07
55	HP	iPAQ rz1710							GSM		Jul-06
56	HTC	Desire							GSM	26	May-11
57	HTC	EVO 4G							CDMA	26	May-11
58	HTC	Hero							GSM	9	Oct-09
59	HTC	Incredible							CDMA	26	May-11
60	HTC	Kaizer							GSM	9	Jan-08

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61	HTC	Magic							GSM	9	Oct-09
62	HTC	NEXUS ONE							GSM	26	Dec-10
63	HTC	P3300							GSM	9	Oct-07
64	HTC	P3450							GSM	9	Jul-09
65	HTC	P3470							GSM	9	Oct-08
66	HTC	P5500							GSM	9	Oct-08
67	HTC	S310							GSM	9	Jul-07
68	HTC	S620							GSM	9	Oct-08
69	HTC	S710							GSM	9	Jul-08
70	HTC	S740							GSM	9	Jul-09
71	HTC	S743							GSM	18	Dec-10
72	HTC	Shadow							GSM	9	Oct-08
73	HTC	SMT5800							CDMA A	9	Sep-10
74	HTC	Snap							GSM	9	Oct-09
75	HTC	Tattoo							GSM	9	Jan-10
76	HTC	Tornado							GSM	9	Jan-08
77	HTC	Touch							GSM	9	Oct-07
78	HTC	TOUCH CRUISE							GSM	9	Apr-09
79	HTC	TOUCH DIMOND							GSM	9	Jul-09
80	HTC	Inspire							GSM	26	Dec 2011
81	HTC	ThunderBolt							CDMA A	26	Dec 2011
82	HTC	Sensation							GSM	26	Apr-12
83	HTC	Amaze 4G							GSM	26	Apr-12
84	HTC	Status							GSM	26	Apr-12
85	HUAWEI	U8150							GSM	26	Dec 2011
86	HUAWEI	M735							CDMA A	26	Dec 2011
87	HUAWEI	U8800							GSM	26	Apr-12

88	HUAWEI	M860							CDMA	26	Sep-12
89	IMATE	JAM							GSM	9	Jul-06
90	IMATE	JAMin							GSM	9	Jul-06
91	IMATE	JASJAR							GSM	9	Oct-06
92	IMATE	K-JAM							GSM	9	Jul-06
93	IMATE	PDA2K							GSM		Jul-08
94	IMATE	SP3i							GSM	9	Jul-06
95	IMATE	SP5							GSM	9	Jul-06
96	IMATE	SPL							GSM	9	Jul-07
97	KYOCERA	K323							CDMA		Jan-09
98	KYOCERA	K342							CDMA		Jan-09
99	KYOCERA	K404							CDMA	3	Jul-06
100	KYOCERA	K9							CDMA	3	Jan-09
101	KYOCERA	KX1							CDMA	3	Jan-09
102	KYOCERA	KX160							CDMA	3	Jan-09
103	KYOCERA	KX5							CDMA		Jan-09
104	KYOCERA	KX9a							CDMA	3	Jan-09
105	KYOCERA	S1300							CDMA	26	Sep-10
106	KYOCERA	S4000							CDMA	26	Sep-10
107	KYOCERA	SE47							CDMA	19	Jul-06
108	KYOCERA	M1400							CDMA	26	Dec 2011
109	LG	A7110							GSM	5	Jul-06
110	LG	AX380							CDMA	27	Jul-09
111	LG	C1300i							GSM	19	Jan-07
112	LG	C1500							GSM	19	Jan-07
113	LG	C2000							GSM	19	Jan-07
114	LG	C2500							GSM	9	Jul-10

11 5	LG	CE500	 						GSM	5	Jul-06
11 6	LG	CG225	 			 			GSM	19	Jan-07
11 7	LG	CG300	 			 			GSM	19	Jan-07
11 8	LG	F2500	 			 			GSM		Apr-08
11 9	LG	F9100	 			 			GSM	19	Jan-07
12 0	LG	F9200	 			 			GSM	19	Jan-07
12 1	LG	G4020	 			 			GSM	19	Apr-08
12 2	LG	G4050	 			 			GSM	19	Jan-07
12 3	LG	GD900	 			 			GSM	26	Jan-10
12 4	LG	GS170	 			 			GSM	26	Dec-10
12 5	LG	GT365	 			 			GSM	27	Sep-10
12 6	LG	GT950 (Arena)	 			 			GSM	26	May-11
12 7	LG	GW300	 			 			GSM	26	Jan-10
12 8	LG	GW520	 			 			GSM	26	Jan-10
12 9	LG	GW820 (Expo)	 		 	 			GSM	26	May-11
13 0	LG	KC550	 			 			GSM	27	Oct-08
13 1	LG	KC780	 			 			GSM	27	Oct-09
13 2	LG	KC910	 			 			GSM	27	Apr-09
13 3	LG	KE500	 			 			GSM	27	Oct-08
13 4	LG	KE770	 			 			GSM	27	Apr-08
13 5	LG	KE800	 			 			GSM	27	Apr-08
13 6	LG	KE820	 			 			GSM	27	Apr-08
13 7	LG	KE850	 			 			GSM	27	Apr-08
13 8	LG	KE970	 			 			GSM	27	Apr-08
13 9	LG	KF510	 			 			GSM	27	Jan-09
14 0	LG	KF600	 			 			GSM	27	Jan-09
14 1	LG	KG200	 		 	 			GSM	9	Sep-10

14 2	LG	KG300							GSM	9	Sep-10
14 3	LG	KG320							GSM	27	Jul-07
14 4	LG	KG800							GSM	27	Oct-06
14 5	LG	KG810							GSM	27	Apr-08
14 6	LG	KG920							GSM	5	Oct-06
14 7	LG	KM710							GSM	27	Oct-08
14 8	LG	KM900							GSM		Jan-10
14 9	LG	KP170							GSM	27	Jan-10
15 0	LG	KP500							GSM	27	Apr-09
15 1	LG	KU990							GSM	27	Apr-09
15 2	LG	L1150							GSM	19	Apr-08
15 3	LG	L1200							GSM	19	Jan-07
15 4	LG	L1400i							GSM	19	Jan-07
15 5	LG	LG6190							CDM A	6	Sep-10
15 6	LG	LX150							CDM A	27	Apr-08
15 7	LG	LX160							CDM A	27	Apr-08
15 8	LG	LX550							CDM A	6	Apr-08
15 9	LG	LX5550							CDM A	5	Oct-07
16 0	LG	MM535							CDM A	6	Apr-06
16 1	LG	MN240 (Imprint)							CDM A	26	May-11
16 2	LG	MT310							CDM A	26	Dec-10
16 3	LG	P7200							GSM	5	Apr-06
16 4	LG	PM225							CDM A	6	Apr-06
16 5	LG	PM325							CDM A	6	Apr-06
16 6	LG	S5200							GSM	5	Apr-06
16 7	LG	U8110							GSM	5	Apr-09
16 8	LG	U8120							GSM	5	Apr-09

169	LG	U8130							GSM	5	Apr-09
170	LG	U8138							GSM	5	Apr-09
171	LG	U8360							GSM	5	Apr-09
172	LG	U8380							GSM	5	Apr-09
173	LG	UN430							CDMA	26	Dec-10
174	LG	UX260							CDMA	27	Oct-09
175	LG	UX300							CDMA	26	Dec-10
176	LG	UX355							CDMA	6	Jul-07
177	LG	UX390							CDMA	6	Jul-07
178	LG	UX4750							CDMA	6	Jan-08
179	LG	UX5000							CDMA	6	Jan-08
180	LG	VI125							CDMA	6	Apr-06
181	LG	VX10000							CDMA	27	Jan-09
182	LG	VX4500							CDMA	19	Jul-06
183	LG	VX4600							CDMA	19	Jul-06
184	LG	VX4700							CDMA	6	Apr-06
185	LG	VX5200							CDMA	6	Apr-06
186	LG	VX5300							GSM	21	Oct-06
187	LG	VX5400							CDMA	27	Jan-09
188	LG	VX5500							CDMA	26	Sep-10
189	LG	VX5600							CDMA	26	Dec-10
190	LG	VX6000							CDMA	5	Jul-06
191	LG	VX6100							CDMA	6	Apr-06
192	LG	VX6190							CDMA	6	Sep-10
193	LG	VX7000							CDMA	6	Jul-06
194	LG	VX8000							CDMA	6	Jul-06
195	LG	VX8100							CDMA	6	Apr-06

196	LG	VX8300							CDMA	21	Oct-06
197	LG	VX8350							CDMA	27	Apr-08
198	LG	VX8500							CDMA	27	Oct-08
199	LG	VX8575							CDMA	26	Sep-10
200	LG	VX8610							CDMA	26	Oct-09
201	LG	VX8700							CDMA	27	Jan-09
202	LG	VX8800							CDMA	27	Jan-09
203	LG	VX9100							CDMA	26	Jan-09
204	LG	VX9200							CDMA	26	Dec-10
205	LG	VX9400							CDMA	27	Apr-08
206	LG	VX9700							CDMA	26	Dec-10
207	LG	VX9800							CDMA	6	Jan-07
208	LG	VX9900							CDMA	27	Oct-08
209	LG	P509							GSM	26	Dec 2011
210	LG	KS20							GSM	27	Dec 2011
211	LG	VS750							CDMA	26	Dec 2011
212	LG	UX310							CDMA	26	Dec 2011
213	LG	MT375							CDMA	26	Dec 2011
214	LG	VN530							CDMA	26	Dec 2011
215	LG	P505							GSM	26	Apr-12
216	LG	C729							GSM	26	Apr-12
217	LG	LG670							CDMA	26	Apr-12
218	LG	AX145							CDMA	19	Apr-12
219	LG	P925							GSM	26	Apr-12
220	LG	P930							GSM	26	Apr-12
221	LOBSTER	700TV							GSM	9	Jan-08
222	MIO	A501							GSM	9	Jul-09

22											
3	MIO	A701							GSM	9	Apr-07
22											
4	MOTOROLA	MB810 (DROID X)							CDM A	26	May-11
22											
5	MOTOROLA	A555 (Devour)							CDM A	26	May-11
22											
6	MOTOROLA	A835							GSM	24	Dec-05
22											
7	MOTOROLA	A855							CDM A	26	Sep-10
22											
8	MOTOROLA	C332							GSM	9	Jul-07
22											
9	MOTOROLA	C343							CDM A	24	Apr-06
23											
0	MOTOROLA	C350							GSM	9	Apr-06
23											
1	MOTOROLA	C385							GSM	9	Dec-05
23											
2	MOTOROLA	C390							GSM	9	Dec-05
23											
3	MOTOROLA	C550							GSM	9	Dec-05
23											
4	MOTOROLA	C650							GSM	9	Dec-05
23											
5	MOTOROLA	C975							GSM	24	Dec-05
23											
6	MOTOROLA	E1							GSM	24	Apr-06
23											
7	MOTOROLA	E1000							CDM A	24	Oct-06
23											
8	MOTOROLA	E1070							GSM	9	Jan-07
23											
9	MOTOROLA	E398							GSM	24	Dec-05
24											
0	MOTOROLA	E8							GSM		Jan-10
24											
1	MOTOROLA	E815							CDM A		Oct-06
24											
2	MOTOROLA	K1							GSM	9	Oct-07
24											
3	MOTOROLA	K1m							CDM A		Apr-07
24											
4	MOTOROLA	K3							GSM	9	Jul-07
24											
5	MOTOROLA	L2							GSM	9	Oct-06
24											
6	MOTOROLA	L6							GSM	9	Apr-06
24											
7	MOTOROLA	L7							GSM	9	Apr-06
24											
8	MOTOROLA	maxx Ve							CDM A		Jan-10
24											
9	MOTOROLA	MPX200							GSM	9	Jul-06

250	MOTOROLA	MPX220							GSM	24	Jul-06
251	MOTOROLA	Q							GSM	9	Jan-08
252	MOTOROLA	Q9h							GSM	26	Apr-08
253	MOTOROLA	QA1							GSM	26	Sep-10
254	MOTOROLA	T280i							GSM		Oct-06
255	MOTOROLA	T300p							CDMA	24	Dec-05
256	MOTOROLA	U6							GSM	9	Apr-06
257	MOTOROLA	V1050							GSM	24	Oct-06
258	MOTOROLA	V120c							CDMA	24	Apr-06
259	MOTOROLA	V180							GSM	9	Dec-05
260	MOTOROLA	V188							GSM	9	Apr-06
261	MOTOROLA	V190							GSM	9	Jul-07
262	MOTOROLA	V195							GSM	9	Oct-06
263	MOTOROLA	V220							GSM	9	Apr-06
264	MOTOROLA	V235							GSM	9	Jan-07
265	MOTOROLA	V260							CDMA	24	Jan-08
266	MOTOROLA	V265							CDMA	24	Apr-08
267	MOTOROLA	V3							GSM	9	Dec-05
268	MOTOROLA	V300							GSM	24	Dec-05
269	MOTOROLA	V360							GSM	9	Apr-06
270	MOTOROLA	V3a							CDMA	9	May-11
271	MOTOROLA	V3c							CDMA		Jan-10
272	MOTOROLA	V3i							GSM	9	Apr-06
273	MOTOROLA	V3m							CDMA		Apr-08
274	MOTOROLA	V3x							GSM	9	Jul-06
275	MOTOROLA	V3xx							GSM	9	Oct-09
276	MOTOROLA	V400							GSM	24	Jan-08

277	MOTOROLA	V500							GSM	24	Jul-08
278	MOTOROLA	V525							GSM	24	Dec-05
279	MOTOROLA	V540							GSM	24	Jul-07
280	MOTOROLA	V550							GSM	24	Apr-06
281	MOTOROLA	V551							GSM	24	Apr-06
282	MOTOROLA	V6							GSM	9	Jul-07
283	MOTOROLA	V600							GSM		Dec-05
284	MOTOROLA	V60p							CDMA	24	Dec-05
285	MOTOROLA	V60v							CDMA	24	Jul-07
286	MOTOROLA	V620							GSM	24	Apr-06
287	MOTOROLA	V635							GSM	24	Dec-05
288	MOTOROLA	V65p							CDMA	24	Apr-08
289	MOTOROLA	V66i							GSM	24	Dec-05
290	MOTOROLA	V70							GSM	24	Dec-05
291	MOTOROLA	V710							CDMA	24	Apr-06
292	MOTOROLA	V8							GSM		Jan-10
293	MOTOROLA	V80							GSM	24	Dec-05
294	MOTOROLA	V860 (Barrage)							CDMA	26	May-11
295	MOTOROLA	V9							GSM	26	Apr-08
296	MOTOROLA	V950							CDMA		Jan-10
297	MOTOROLA	V975							GSM	24	Jul-08
298	MOTOROLA	V980							GSM	24	Dec-05
299	MOTOROLA	V9m							CDMA		Apr-08
300	MOTOROLA	VE240							CDMA	9	May-11
301	MOTOROLA	W385							CDMA		Apr-08
302	MOTOROLA	W450							GSM		Oct-09
303	MOTOROLA	W510							GSM	9	Jan-08

304	MOTOROLA	W755							CDMA		Jan-10
305	MOTOROLA	W840 (Quantico)							CDMA	26	May-11
306	MOTOROLA	Z3							GSM	9	Apr-07
307	MOTOROLA	Z6							GSM		Jan-10
308	MOTOROLA	Z6m							CDMA		Apr-08
309	MOTOROLA	Z6tv							CDMA		Sep-10
310	MOTOROLA	Z8							GSM		Jul-08
311	MOTOROLA	Z9							GSM	26	Apr-09
312	MOTOROLA	ZN4							CDMA		Jan-10
313	MOTOROLA	MB860							GSM	26	Dec 2011
314	MOTOROLA	XT610							CDMA	26	Dec 2011
315	MOTOROLA	MB865							GSM	26	Sep-12
316	NDRIVE	S300							GSM	9	Apr-09
317	NEO	808i							GSM		Jan-09
318	NOKIA	1100							GSM	25(C D-NOK1)	Oct-07
319	NOKIA	1101							GSM	25(C D-NOK1)	Oct-07
320	NOKIA	1110							GSM	25(C D-NOK2)	Oct-07
321	NOKIA	1112							GSM	25(C D-NOK2)	Oct-07
322	NOKIA	1200							GSM	25(C D-NOK1)	Jan-08
323	NOKIA	1208							GSM	25(C D-NOK1)	Jan-08
324	NOKIA	1209							GSM	25(C D-	Apr-09

										NOK1)	
32 5	NOKIA	1600							GSM	25(C D- NOK2)	Oct-07
32 6	NOKIA	2100							GSM	25(C D- NOK3)	Oct-07
32 7	NOKIA	2285							CDMA	999	Oct-06
32 8	NOKIA	2300							GSM	25(C D- NOK1)	Oct-07
32 9	NOKIA	2310							GSM	25(C D- NOK2)	Oct-07
33 0	NOKIA	2600							GSM		Jul-08
33 1	NOKIA	2610							GSM	25(C D- NOK2)	Oct-07
33 2	NOKIA	2626							GSM	25(C D- NOK2)	Oct-07
33 3	NOKIA	2630							GSM		Apr-08
33 4	NOKIA	2650							GSM	25(C D- NOK6)	Oct-07
33 5	NOKIA	2652							GSM	25(C D- NOK6)	Oct-07
33 6	NOKIA	2680							GSM		Jan-09
33 7	NOKIA	2760							GSM		Jan-08
33 8	NOKIA	3100							GSM	999	Oct-06
33 9	NOKIA	3109							GSM	9	Oct-07
34 0	NOKIA	3110							GSM	9	Jul-07
34 1	NOKIA	3120							GSM	999	Jul-08
34 2	NOKIA	3200							GSM	999	Apr-06

343	NOKIA	3210							GSM	25(C D-NOK8)	Oct-07
344	NOKIA	3220							GSM	999	Apr-07
345	NOKIA	3230							GSM	12	Apr-07
346	NOKIA	3250							GSM	12	Apr-07
347	NOKIA	3310							GSM	25(C D-NOK9)	Oct-07
348	NOKIA	3330							GSM	25(C D-NOK9)	Jan-08
349	NOKIA	3410							GSM	25(C D-NOK9)	Oct-07
350	NOKIA	3510							GSM	25(C D-NOK5)	Jan-08
351	NOKIA	3555							CDMA	26	Oct-08
352	NOKIA	5000							GSM		Oct-08
353	NOKIA	5070							GSM	999	Jul-07
354	NOKIA	5100							GSM	999	Dec-05
355	NOKIA	5110							GSM	25(C D-NOK7)	Oct-07
356	NOKIA	5140							GSM	999	Jul-08
357	NOKIA	5200							GSM	9	Apr-07
358	NOKIA	5210							GSM		Apr-07
359	NOKIA	5220							GSM	26	Oct-08
360	NOKIA	5230							GSM	26	Sep-10
361	NOKIA	5300							GSM	9	Apr-07
362	NOKIA	5310							GSM	26	Jan-08
363	NOKIA	5320							GSM	26	Jan-09

364	NOKIA	5500							GSM	12	Apr-07
365	NOKIA	5610							GSM	26	Apr-08
366	NOKIA	5700							GSM	9	Jul-07
367	NOKIA	5800							GSM	26	Jul-09
368	NOKIA	6010							GSM	25(C D-NOK5)	Oct-07
369	NOKIA	6020							GSM	999	Dec-05
370	NOKIA	6021							GSM	999	Apr-06
371	NOKIA	6030							GSM	25(C D-NOK2)	Oct-07
372	NOKIA	6060							GSM	25(C D-NOK2)	Oct-07
373	NOKIA	6061							GSM	25(C D-NOK2)	Apr-08
374	NOKIA	6070							GSM	999	Oct-06
375	NOKIA	6080							GSM	999	Jan-07
376	NOKIA	6085							GSM	12	Jul-07
377	NOKIA	6086							GSM	12	Apr-08
378	NOKIA	6100							GSM	999	Dec-05
379	NOKIA	6101							GSM	999	Dec-05
380	NOKIA	6103							GSM	999	Oct-06
381	NOKIA	6108							GSM	999	Oct-07
382	NOKIA	6111							GSM	12	Apr-06
383	NOKIA	6120							GSM	9	Jan-08
384	NOKIA	6125							GSM	12	Oct-06
385	NOKIA	6130							GSM	25(C D-NOK7)	Oct-07

386	NOKIA	6131							GSM	12	Jul-06
387	NOKIA	6136							GSM	12	Jan-07
388	NOKIA	6150							GSM	25(C D-NOK7)	Oct-07
389	NOKIA	6151							GSM	12	Oct-06
390	NOKIA	6170							GSM	12	Dec-05
391	NOKIA	6200							GSM	999	Jul-07
392	NOKIA	6210							GSM	26	Jul-09
393	NOKIA	6210							GSM	25(C D-NOK7)	Oct-07
394	NOKIA	6220							GSM	999	Dec-05
395	NOKIA	6225							CDMA	999	Jul-07
396	NOKIA	6230							GSM	12	Apr-06
397	NOKIA	6233							GSM	12	Oct-06
398	NOKIA	6234							GSM	12	Jul-07
399	NOKIA	6260							GSM	12	Jan-07
400	NOKIA	6263							CDMA	9	Oct-08
401	NOKIA	6267							GSM	9	Jan-08
402	NOKIA	6270							GSM	12	Jul-06
403	NOKIA	6280							GSM	12	Apr-06
404	NOKIA	6282							GSM	12	Jul-07
405	NOKIA	6288							GSM	12	Jul-07
406	NOKIA	6290							GSM	9	Oct-07
407	NOKIA	6300							GSM	9	Jul-07
408	NOKIA	6301							GSM	9	Jan-09
409	NOKIA	6310							GSM		Apr-06
410	NOKIA	6360							CDMA	25(C D-	Oct-07

										NOK7)	
41 1	NOKIA	6510							GSM		Apr-07
41 2	NOKIA	6555							GSM	26	Jan-08
41 3	NOKIA	6610							GSM	999	Apr-06
41 4	NOKIA	6620							GSM	12	Apr-07
41 5	NOKIA	6630							GSM		Jan-08
41 6	NOKIA	6650							GSM	26	Jul-09
41 7	NOKIA	6670							GSM	12	Jan-07
41 8	NOKIA	6680							GSM	12	Jan-07
41 9	NOKIA	6790							GSM	26	Sep-10
42 0	NOKIA	6800							GSM	999	Oct-07
42 1	NOKIA	6810							GSM	999	Jul-07
42 2	NOKIA	6820							GSM	999	Apr-06
42 3	NOKIA	6822							GSM	999	Dec-05
42 4	NOKIA	7020							GSM	26	Dec-10
42 5	NOKIA	7110							GSM	25(C D- NOK7)	Oct-07
42 6	NOKIA	7200							GSM	999	Oct-06
42 7	NOKIA	7210							GSM	26	Jan-09
42 8	NOKIA	7210							GSM	999	Dec-05
42 9	NOKIA	7260							GSM	999	Apr-06
43 0	NOKIA	7270							GSM	12	Dec-05
43 1	NOKIA	7280							GSM		Dec-05
43 2	NOKIA	7360							GSM	999	Apr-06
43 3	NOKIA	7370							GSM	12	Apr-06
43 4	NOKIA	7373							GSM	12	Apr-07
43	NOKIA	7380							GSM		Apr-06

5											
436	NOKIA	7390							GSM	9	Apr-07
437	NOKIA	7500							GSM	9	Jan-08
438	NOKIA	7510							GSM	26	Jul-09
439	NOKIA	7600							GSM	12	Dec-05
440	NOKIA	7610							GSM	12	Jan-07
441	NOKIA	7900							GSM	26	Apr-08
442	NOKIA	8210							GSM	25(C D- NOK3)	Apr-07
443	NOKIA	8310							GSM		Apr-07
444	NOKIA	8800							GSM		Dec-05
445	NOKIA	8850							GSM		Apr-07
446	NOKIA	8910							GSM		Dec-05
447	NOKIA	1110i							GSM	25(C D- NOK2)	Oct-07
448	NOKIA	2323 Classic							GSM		Oct-09
449	NOKIA	2330 Classic							GSM		Oct-09
450	NOKIA	2700 Classic							GSM	26	Oct-09
451	NOKIA	2720 Fold							GSM		Jan-10
452	NOKIA	2730 Classic							GSM	26	Jan-10
453	NOKIA	2865i							CDM A	12	Jan-08
454	NOKIA	3120 Classic							GSM	26	Apr-09
455	NOKIA	3155i							CDM A	12	Apr-08
456	NOKIA	3500 classic							GSM	9	Jan-08
457	NOKIA	3510i							GSM	25(C D- NOK5)	Oct-07
458	NOKIA	3600 Slide							GSM	26	Oct-08

45												
9	NOKIA	3720 Classic							GSM	26	Jan-10	
46												
0	NOKIA	5130 Xpress Music							GSM	26	Oct-09	
46												
1	NOKIA	5140i							GSM	999	Dec-05	
46												
2	NOKIA	5530 Xpress Music							GSM	26	Oct-09	
46												
3	NOKIA	5630 Xpress Music							GSM	26	Oct-09	
46												
4	NOKIA	5730 Xpress Music							GSM	26	Oct-09	
46												
5	NOKIA	6015i							CDM A	999	Oct-06	
46												
6	NOKIA	6030b							GSM	25(C D-NOK2)	Jan-10	
46												
7	NOKIA	6110 Navigator							GSM	9	Oct-07	
46												
8	NOKIA	6124c							GSM	9	Jan-09	
46												
9	NOKIA	6155i							CDM A	12	Apr-08	
47												
0	NOKIA	6165i							CDM A	12	Jan-07	
47												
1	NOKIA	6208 Classic							GSM	26	Oct-09	
47												
2	NOKIA	6212 Classic							GSM	26	Oct-09	
47												
3	NOKIA	6220 Classic							GSM	26	Apr-09	
47												
4	NOKIA	6230i							GSM	12	Apr-06	
47												
5	NOKIA	6235i							CDM A	12	Apr-06	
47												
6	NOKIA	6255i							CDM A	12	Apr-06	
47												
7	NOKIA	6260 Slide							GSM	26	Oct-09	
47												
8	NOKIA	6265i							CDM A	12	Jan-08	
47												
9	NOKIA	6275i							GSM	12	Apr-08	
48												
0	NOKIA	6303 Classic							GSM	26	Oct-09	
48												
1	NOKIA	6310i							GSM		Apr-07	
48												
2	NOKIA	6500 classic							GSM	26	Jan-08	
48												
3	NOKIA	6500 Slide										

48											
5	NOKIA	6600 slide							GSM	26	Jan-09
48											
6	NOKIA	6600i Slide							GSM	26	Jan-10
48											
7	NOKIA	6610i							GSM	999	Dec-05
48											
8	NOKIA	6700 Classic							GSM	26	Jan-10
48											
9	NOKIA	6720 Classic							GSM	26	Oct-09
49											
0	NOKIA	6730 Classic							GSM	26	Oct-09
49											
1	NOKIA	6760 Slide							GSM	26	Jan-10
49											
2	NOKIA	7100 Supernova							GSM		Apr-09
49											
3	NOKIA	7250i							GSM	999	Dec-05
49											
4	NOKIA	7310 Supernova							GSM	26	Oct-08
49											
5	NOKIA	7610 Supernova							GSM	26	Oct-08
49											
6	NOKIA	8600 Luna							GSM	26	Oct-08
49											
7	NOKIA	8910i							GSM		Dec-05
49											
8	NOKIA	E50							GSM	12	Apr-07
49											
9	NOKIA	E51							GSM	9	Apr-08
50											
0	NOKIA	E55							GSM	26	Jan-10
50											
1	NOKIA	E60							GSM	12	Apr-07
50											
2	NOKIA	E61							GSM	12	Apr-07
50											
3	NOKIA	E63							GSM	26	Apr-09
50											
4	NOKIA	E65							GSM	12	Apr-07
50											
5	NOKIA	E66							GSM	26	Oct-08
50											
6	NOKIA	E70							GSM	12	Apr-07
50											
7	NOKIA	E71							GSM	26	Oct-08
50											
8	NOKIA	E75							GSM	26	Jul-09
50											

51 2	NOKIA	N73							GSM	12	Apr-07
51 3	NOKIA	N76							GSM	9	Jul-07
51 4	NOKIA	N77							GSM	12	Oct-08
51 5	NOKIA	N79							GSM	26	Jan-09
51 6	NOKIA	N80							GSM	12	Apr-07
51 7	NOKIA	N81 8GB							GSM	26	Apr-08
51 8	NOKIA	N82							GSM	26	Jul-08
51 9	NOKIA	N85							GSM	26	Apr-09
52 0	NOKIA	N90							GSM	12	Jan-07
52 1	NOKIA	N91							GSM	9	Apr-07
52 2	NOKIA	N93							GSM	12	Apr-08
52 3	NOKIA	N93i							GSM	12	Jul-07
52 4	NOKIA	N95							GSM	9	Jan-08
52 5	NOKIA	N95 8GB							GSM	9	Jul-08
52 6	NOKIA	N96							GSM	26	Oct-08
52 7	NOKIA	N97							GSM	26	Oct-09
52 8	NOKIA	N97 mini							GSM	26	Sep-10
52 9	NOKIA	X3							GSM	26	Dec-10
53 0	NOKIA	X6							GSM	26	May-11
53 1	NOKIA	6350							GSM	26	Dec 2011
53 2	NOKIA	X2-01							GSM	26	Dec 2011
53 3	O2	ICE							GSM	5	Oct-07
53 4	O2	XDA							GSM		Jul-06
53 5	O2	XDA Ili							GSM		Jul-06
53 6	ORANGE	SPV C500							GSM	9	Jul-06
53 7	ORANGE	SPV C550							GSM	9	Jul-06
53 8	ORANGE	SPV C600							GSM	9	Jul-06

539	PALM	700P							CDMA	11	Jan-10
540	PALM	Centro							GSM	11	Jan-09
541	PALM	Treo 500							GSM	9	Jan-09
542	PALM	Treo 680							GSM	11	Apr-08
543	PALM	Treo 750							GSM		Jul-07
544	PALM	Treo Pro							GSM	9	Jan-09
545	PANTECH	P8000							GSM	26	Apr-12
546	SAGEM	my302X							GSM		Apr-07
547	SAGEM	my401C							GSM		Jan-08
548	SAGEM	my401V							GSM		Apr-07
549	SAGEM	my401X							GSM		Apr-07
550	SAGEM	my411C							GSM		Jan-08
551	SAGEM	my411Cv							GSM		Jan-08
552	SAGEM	my411X							GSM		Jan-08
553	SAGEM	my501C							GSM		Apr-07
554	SAGEM	my511X							GSM		Jan-08
555	SAGEM	my600v							GSM		Jul-07
556	SAGEM	my700X							GSM		Apr-07
557	SAGEM	myV-55							GSM		Jan-08
558	SAGEM	myV-65							GSM		Jan-08
559	SAGEM	myX5-2							GSM		Jan-08
560	SAGEM	myX-6							GSM		Jan-08
561	SAMSUNG	B2100							GSM	29	Jul-09
562	SAMSUNG	B2700							GSM	29	Apr-09
563	SAMSUNG	B3310							GSM	26	Oct-09
564	SAMSUNG	B5702							GSM	29	Oct-09
565	SAMSUNG	B7300							GSM	26	Jan-10

566	SAMSUNG	C3050							GSM	29	Jul-09
567	SAMSUNG	C6625							GSM	29	Oct-09
568	SAMSUNG	E1360							GSM		Oct-09
569	SAMSUNG	E2210							GSM		Oct-09
570	SAMSUNG	I8000							GSM	26	Jan-10
571	SAMSUNG	i8510							GSM		Apr-09
572	SAMSUNG	M3200							GSM	29	Jan-10
573	SAMSUNG	M7500							GSM	26	Jul-09
574	SAMSUNG	M7600							GSM	26	Jul-09
575	SAMSUNG	M8800							GSM	29	Apr-09
576	SAMSUNG	S3030							GSM	29	Oct-09
577	SAMSUNG	S3100							GSM	29	Jan-10
578	SAMSUNG	S3500							GSM	29	Apr-09
579	SAMSUNG	S3600							GSM		Jan-10
580	SAMSUNG	S3650							GSM	29	Jan-10
581	SAMSUNG	S5050							GSM	29	Oct-09
582	SAMSUNG	S5230							GSM	29	Oct-09
583	SAMSUNG	S5600							GSM	26	Oct-09
584	SAMSUNG	S7220							GSM	26	Jul-09
585	SAMSUNG	S7330							GSM	29	Apr-09
586	SAMSUNG	S8000							GSM	26	Oct-09
587	SAMSUNG	S8300							GSM	26	Jul-09
588	SAMSUNG	SCH-A310							CDMA	13	Apr-06
589	SAMSUNG	SCH-A530							CDMA	13	Apr-06
590	SAMSUNG	SCH-A570							CDMA	13	Oct-06
591	SAMSUNG	SCH-A630							CDMA	23	Oct-06
592	SAMSUNG	SCH-A650							CDMA	13	Apr-06

593	SAMSUNG	SCH-A670							CDMA	13	Apr-06
594	SAMSUNG	SCH-A795							CDMA	23	Apr-08
595	SAMSUNG	SCH-A850							CDMA	23	Apr-08
596	SAMSUNG	SCH-A870							CDMA	23	Apr-08
597	SAMSUNG	SCH-A930							CDMA	23	Apr-08
598	SAMSUNG	SCH-A950							CDMA	23	Apr-08
599	SAMSUNG	SCH-A990							CDMA	23	Apr-08
600	SAMSUNG	SCH-i220							CDMA	26	May-11
601	SAMSUNG	SCH-i600							GSM		Jul-06
602	SAMSUNG	SCH-i730							CDMA		Jul-06
603	SAMSUNG	SCH-i760							GSM	30	Jul-08
604	SAMSUNG	SCH-i920							CDMA	26	Dec-10
605	SAMSUNG	SCH-R450							CDMA	29	Jul-09
606	SAMSUNG	SCH-U340							CDMA	23	Jul-09
607	SAMSUNG	SCH-U350							CDMA	29	Dec-10
608	SAMSUNG	SCH-U410							CDMA	23	Apr-08
609	SAMSUNG	SCH-U650							CDMA	29	Jul-09
610	SAMSUNG	SCH-U740							CDMA	22	Jan-10
611	SAMSUNG	SCH-U820							CDMA	26	Dec-10
612	SAMSUNG	SCH-U940							CDMA	29	Jul-09
613	SAMSUNG	SGH-A177							GSM	29	Jan-10
614	SAMSUNG	SGH-A300							GSM	14	Dec-05
615	SAMSUNG	SGH-A517							GSM	29	Apr-08
616	SAMSUNG	SGH-A687							GSM	29	Dec-10
617	SAMSUNG	SGH-A707							GSM	22	Jan-08
618	SAMSUNG	SGH-A717							GSM	22	Jan-08
619	SAMSUNG	SGH-A727							GSM	22	Jan-08

620	SAMSUNG	SGH-A737							GSM	29	Oct-08
621	SAMSUNG	SGH-A747							GSM	29	Oct-08
622	SAMSUNG	SGH-A767							GSM	29	Jul-09
623	SAMSUNG	SGH-A777							GSM	29	Dec-10
624	SAMSUNG	SGH-A827							GSM	29	Oct-08
625	SAMSUNG	SGH-A837							GSM	29	Jul-09
626	SAMSUNG	SGH-A877							GSM	29B	Dec-10
627	SAMSUNG	SGH-A887							GSM	29B	Dec-10
628	SAMSUNG	SGH-C100							GSM	14	Dec-05
629	SAMSUNG	SGH-C207							GSM	14	Jul-06
630	SAMSUNG	SGH-C225							GSM	14	Dec-05
631	SAMSUNG	SGH-C300							GSM	14	Jan-08
632	SAMSUNG	SGH-D307							GSM	13	Jul-06
633	SAMSUNG	SGH-D357							GSM	13	Jul-07
634	SAMSUNG	SGH-D407							GSM		Oct-07
635	SAMSUNG	SGH-D410							GSM	14	Dec-05
636	SAMSUNG	SGH-D500							GSM	13	Dec-05
637	SAMSUNG	SGH-D520							GSM	22	Apr-07
638	SAMSUNG	SGH-D600							GSM	13	Apr-06
639	SAMSUNG	SGH-D720							GSM	5	Jul-07
640	SAMSUNG	SGH-D780							GSM	29	Jan-09
641	SAMSUNG	SGH-D800							GSM	22	Oct-06
642	SAMSUNG	SGH-D807							GSM	22	Apr-08
643	SAMSUNG	SGH-D820							GSM	22	Oct-06
644	SAMSUNG	SGH-D830							GSM	22	Apr-07
645	SAMSUNG	SGH-D840							GSM	22	Jul-07
646	SAMSUNG	SGH-D880							GSM	29	Jul-08

647	SAMSUNG	SGH-D900							GSM	22	Apr-07
648	SAMSUNG	SGH-D900i							GSM	22	Oct-07
649	SAMSUNG	SGH-D980							GSM	29	Apr-09
650	SAMSUNG	SGH-E105							GSM	14	Apr-06
651	SAMSUNG	SGH-E210							GSM		Jan-08
652	SAMSUNG	SGH-E250							GSM	22	Apr-07
653	SAMSUNG	SGH-E330							GSM	20	Oct-06
654	SAMSUNG	SGH-E335							GSM	20	Oct-06
655	SAMSUNG	SGH-E350							GSM	13	Dec-05
656	SAMSUNG	SGH-E370							GSM	13	Jan-07
657	SAMSUNG	SGH-E390							GSM	22	Apr-07
658	SAMSUNG	SGH-E530							GSM		Dec-05
659	SAMSUNG	SGH-E570							GSM	22	Apr-07
660	SAMSUNG	SGH-E590							GSM	22	Oct-07
661	SAMSUNG	SGH-E600							GSM	14	Jul-07
662	SAMSUNG	SGH-E630							GSM	20	Apr-06
663	SAMSUNG	SGH-E700							GSM	20	Dec-05
664	SAMSUNG	SGH-E715							GSM	14	Oct-06
665	SAMSUNG	SGH-E720							GSM	5	Dec-05
666	SAMSUNG	SGH-E730							GSM	13	Dec-05
667	SAMSUNG	SGH-E740							GSM	22	Jan-08
668	SAMSUNG	SGH-E760							GSM	13	Dec-05
669	SAMSUNG	SGH-E770							GSM	13	Apr-06
670	SAMSUNG	SGH-E800							GSM	20	Dec-05
671	SAMSUNG	SGH-E830							GSM	22	Apr-08
672	SAMSUNG	SGH-E840							GSM	22	Oct-07
673	SAMSUNG	SGH-E870							GSM	22	Oct-06

67 4	SAMSUNG	SGH-E880							GSM		Jul-07
67 5	SAMSUNG	SGH-E900							GSM	22	Jan-07
67 6	SAMSUNG	SGH-E950							GSM	22	Jan-08
67 7	SAMSUNG	SGH-F110							GSM	29	Oct-08
67 8	SAMSUNG	SGH-F210							GSM		Jan-08
67 9	SAMSUNG	SGH-F250							GSM	29	Jan-09
68 0	SAMSUNG	SGH-F300							GSM	22	Jul-07
68 1	SAMSUNG	SGH-F330							GSM	29	Jul-08
68 2	SAMSUNG	SGH-F400							GSM	29	Jul-08
68 3	SAMSUNG	SGH-F480							GSM	29	Jan-09
68 4	SAMSUNG	SGH-F490							GSM	29	Jul-08
68 5	SAMSUNG	SGH-F500							GSM	22	Oct-07
68 6	SAMSUNG	SGH-F700							GSM	29	Apr-09
68 7	SAMSUNG	SGH-G400							GSM	29	Apr-09
68 8	SAMSUNG	SGH-G600							GSM		Jan-08
68 9	SAMSUNG	SGH-G800							GSM	29	Jul-08
69 0	SAMSUNG	SGH-G810							GSM	26	Apr-09
69 1	SAMSUNG	SGH-i200							GSM	29	Jan-09
69 2	SAMSUNG	SGH-i300							GSM	5	Oct-07
69 3	SAMSUNG	SGH-i320							GSM		Jan-07
69 4	SAMSUNG	SGH-i325							GSM	29	Jan-09
69 5	SAMSUNG	SGH-i600							CDMA A	9	Oct-07
69 6	SAMSUNG	SGH-i607							GSM	22	Jul-07
69 7	SAMSUNG	SGH-i617							GSM	29	Oct-08
69 8	SAMSUNG	SGH-i620							GSM	22	Jan-09
69 9	SAMSUNG	SGH-i710							GSM	22	Oct-07
70 0	SAMSUNG	SGH-i780							GSM	29	Jul-09

70											
1	SAMSUNG	SGH-i900							GSM	29	Jan-09
70											
2	SAMSUNG	SGH-J600							GSM	22	Jan-08
70											
3	SAMSUNG	SGH-J610							GSM	29	Oct-08
70											
4	SAMSUNG	SGH-J700							GSM	29	Jul-08
70											
5	SAMSUNG	SGH-L700							GSM	29	Jan-10
70											
6	SAMSUNG	SGH-L760							GSM	29	Oct-08
70											
7	SAMSUNG	SGH-L770							GSM		Jan-09
70											
8	SAMSUNG	SGH-M150							GSM	29	Oct-08
70											
9	SAMSUNG	SGH-M610							GSM	29	Oct-08
71											
0	SAMSUNG	SGH-P207							GSM	13	Oct-06
71											
1	SAMSUNG	SGH-P300							GSM	22	Apr-06
71											
2	SAMSUNG	SGH-P310							GSM	22	Apr-07
71											
3	SAMSUNG	SGH-P400							GSM	14	Dec-05
71											
4	SAMSUNG	SGH-P510							GSM		Dec-05
71											
5	SAMSUNG	SGH-P520							GSM	29	Apr-08
71											
6	SAMSUNG	SGH-P735							GSM	5	Dec-05
71											
7	SAMSUNG	SGH-P777							GSM		Jul-06
71											
8	SAMSUNG	SGH-P850							GSM	13	Oct-06
71											
9	SAMSUNG	SGH-S300M							GSM	14	Oct-06
72											
0	SAMSUNG	SGH-S307							GSM	14	Dec-05
72											
1	SAMSUNG	SGH-S400i							GSM	13	Apr-07
72											
2	SAMSUNG	SGH-S401i							GSM	13	Apr-07
72											
3	SAMSUNG	SGH-T301							GSM	29	Jan-10
72											
4	SAMSUNG	SGH-T309							GSM	13	Jul-06
72											
5	SAMSUNG	SGH-T349							GSM		Jan-10
72											
6	SAMSUNG	SGH-T369							GSM	26	May-11
72											
7	SAMSUNG	SGH-T429							GSM	29	Jul-08

728	SAMSUNG	SGH-T439							GSM	29	Oct-08
729	SAMSUNG	SGH-T469							GSM		Sep-10
730	SAMSUNG	SGH-T509							GSM	22	Jan-07
731	SAMSUNG	SGH-T539							GSM	29	Apr-08
732	SAMSUNG	SGH-T609							GSM	13	Jan-07
733	SAMSUNG	SGH-T639							GSM	29	Oct-08
734	SAMSUNG	SGH-T719							GSM	13	Jan-07
735	SAMSUNG	SGH-T729							GSM	29	Apr-08
736	SAMSUNG	SGH-T739							GSM	29	Oct-08
737	SAMSUNG	SGH-T749							GSM	29	Dec-10
738	SAMSUNG	SGH-T809							GSM	22	Jul-06
739	SAMSUNG	SGH-T819							GSM	29	Oct-08
740	SAMSUNG	SGH-T919							GSM	29	Jul-09
741	SAMSUNG	SGH-U100							GSM		Jul-07
742	SAMSUNG	SGH-U600							GSM	22	Jul-07
743	SAMSUNG	SGH-U700							GSM	22	Jan-08
744	SAMSUNG	SGH-U800							GSM	29	Jan-09
745	SAMSUNG	SGH-U900							GSM	29	Jul-08
746	SAMSUNG	SGH-X100							GSM	20	Oct-07
747	SAMSUNG	SGH-X427m							GSM	14	Apr-06
748	SAMSUNG	SGH-X450							GSM	14	Dec-05
749	SAMSUNG	SGH-X460							GSM	20	Apr-07
750	SAMSUNG	SGH-X475							GSM	20	Oct-06
751	SAMSUNG	SGH-X495							GSM	20	Jul-08
752	SAMSUNG	SGH-X497							GSM	20	Jul-08
753	SAMSUNG	SGH-X500							GSM	13	Apr-08
754	SAMSUNG	SGH-X507							GSM	13	Apr-07

755	SAMSUNG	SGH-X530							GSM	14	Apr-07
756	SAMSUNG	SGH-X600							GSM	20	Oct-06
757	SAMSUNG	SGH-X640							GSM	20	Oct-06
758	SAMSUNG	SGH-X650							GSM	20	Jul-07
759	SAMSUNG	SGH-X660							GSM	13	Apr-07
760	SAMSUNG	SGH-X680							GSM	13	Jul-08
761	SAMSUNG	SGH-X700							GSM		Oct-07
762	SAMSUNG	SGH-X820							GSM	22	Oct-06
763	SAMSUNG	SGH-X830							GSM	22	Apr-07
764	SAMSUNG	SGH-Z240							GSM	22	Jul-08
765	SAMSUNG	SGH-Z320i							GSM	30	Apr-09
766	SAMSUNG	SGH-Z510							GSM	22	Jul-06
767	SAMSUNG	SGH-Z720							GSM	22	Jul-08
768	SAMSUNG	SPH-A513							CDMA	29	Jul-09
769	SAMSUNG	SPH-A580							CDMA	13	Jan-07
770	SAMSUNG	SPH-A600							CDMA	13	Jul-07
771	SAMSUNG	SPH-A620							CDMA	13	Oct-06
772	SAMSUNG	SPH-A640							CDMA	13	Jul-07
773	SAMSUNG	SPH-A660							CDMA	13	Apr-06
774	SAMSUNG	SPH-A680							CDMA	13	Jul-07
775	SAMSUNG	SPH-A740							CDMA	13	Apr-06
776	SAMSUNG	SPH-A760							CDMA	13	Apr-06
777	SAMSUNG	SPH-A820							CDMA	13	Apr-07
778	SAMSUNG	SPH-A840							CDMA	13	Apr-06
779	SAMSUNG	SPH-A900							CDMA	13	Jul-08
780	SAMSUNG	SPH-A920							CDMA	13	Jul-08
781	SAMSUNG	SPH-A960							CDMA	13	Jul-08

78 2	SAMSUNG	SPH-M500							CDM A	13	Jul-08
78 3	SAMSUNG	SPH-M540							CDM A	26	Jul-09
78 4	SAMSUNG	SPH-M610							CDM A	22	Dec-10
78 5	SAMSUNG	SGH-T959V							GSM	26	Dec-12
78 6	SAMSUNG	SGH-T249							GSM	26	Dec-12
78 7	SAMSUNG	SCH-i400							CDM A	26	Apr-12
78 8	SAMSUNG	SPH-D700							CDM A	26	Apr-12
78 9	SAMSUNG	SGH-T589							GSM	26	Apr-12
79 0	SAMSUNG	SPH-M910							CDM A	26	Apr-12
79 1	SAMSUNG	SCH-R350							CDM A	26	Apr-12
79 2	SAMSUNG	SGH-i727							GSM	26	Apr-12
79 3	SAMSUNG	SGH-i897							GSM	26	Apr-12
79 4	SAMSUNG	SGH-i997							GSM	26	Apr-12
79 5	SAMSUNG	SCH-i515							CDM A	26	Sep-12
79 6	SAMSUNG	GT-I9100							GSM	26	Sep-12
79 7	SHARP	FX PLUS							GSM	26	May-12
79 8	SIEMENS	A60							GSM	16	Jul-08
79 9	SIEMENS	A65							GSM	16	Dec-05
80 0	SIEMENS	A75							GSM	16	Apr-06
80 1	SIEMENS	C35							GSM	17	Dec-05
80 2	SIEMENS	C35i							GSM	17	Oct-06
80 3	SIEMENS	C55							GSM	16	Apr-06
80 4	SIEMENS	C60							GSM	16	Apr-06
80 5	SIEMENS	C61							GSM	16	Apr-06
80 6	SIEMENS	C62							GSM	16	Dec-05
80 7	SIEMENS	C65							GSM	16	Dec-05
80 8	SIEMENS	C72							GSM	16	Jul-06

809	SIEMENS	CF110							GSM	16	Apr-06
810	SIEMENS	CF75							GSM	16	Apr-06
811	SIEMENS	CL75							GSM	16	Apr-06
812	SIEMENS	CT66							GSM	16	Apr-06
813	SIEMENS	CX65							GSM	16	Dec-05
814	SIEMENS	M55							GSM	16	Jul-06
815	SIEMENS	M65							GSM	16	Dec-05
816	SIEMENS	M75							GSM	16	Apr-06
817	SIEMENS	MC60							GSM	16	Dec-05
818	SIEMENS	ME45							GSM	17	Jul-08
819	SIEMENS	ME75							GSM	16	Apr-06
820	SIEMENS	S55							GSM	16	Apr-06
821	SIEMENS	S65							GSM	16	Dec-05
822	SIEMENS	S75							GSM	16	Apr-06
823	SIEMENS	SF65							GSM		Jul-06
824	SIEMENS	SK65							GSM	16	Dec-05
825	SIEMENS	SL55							GSM	16	Dec-05
826	SIEMENS	SL65							GSM	16	Dec-05
827	SIEMENS	SP65							GSM		Jul-09
828	SONIM	XP3							GSM		Oct-09
829	SONY ERICSSON	C510							GSM	18	Apr-09
830	SONY ERICSSON	C702							GSM		Oct-08
831	SONY ERICSSON	C901							GSM	18	Oct-09
832	SONY ERICSSON	C902							GSM		Oct-08
833	SONY ERICSSON	C903							GSM	18	Oct-09
834	SONY ERICSSON	C905							GSM	18	Apr-09
835	SONY ERICSSON	D750i							GSM	18	Apr-06

836	SONY ERICSSON	F305							GSM		Oct-09
837	SONY ERICSSON	F500i							GSM	2	Dec-05
838	SONY ERICSSON	G502							GSM	18	Oct-08
839	SONY ERICSSON	G700							GSM	18	Jan-09
840	SONY ERICSSON	G705							GSM	18	Apr-09
841	SONY ERICSSON	G900							GSM	18	Jan-09
842	SONY ERICSSON	J105i							GSM	18	Sep-10
843	SONY ERICSSON	J300i							GSM	2	Dec-05
844	SONY ERICSSON	K300i							GSM	2	Dec-05
845	SONY ERICSSON	K310i							GSM	18	Oct-06
846	SONY ERICSSON	K320i							GSM	18	Jan-09
847	SONY ERICSSON	K500i							GSM	2	Dec-05
848	SONY ERICSSON	K510i							GSM	18	Jan-07
849	SONY ERICSSON	K530i							GSM	18	Jan-08
850	SONY ERICSSON	K550i							GSM	18	Jul-07
851	SONY ERICSSON	K550im							GSM	18	Jul-07
852	SONY ERICSSON	K600i							GSM	2	Dec-05
853	SONY ERICSSON	K608i							GSM	2	Oct-06
854	SONY ERICSSON	K610i							GSM	18	Oct-06
855	SONY ERICSSON	K630i							GSM	18	Jul-08
856	SONY ERICSSON	K660i							GSM	18	Jul-08
857	SONY ERICSSON	K700i							GSM	2	Dec-05
858	SONY ERICSSON	K750i							GSM	18	Dec-05
859	SONY ERICSSON	K770i							GSM	18	Jan-08
860	SONY ERICSSON	K800i							GSM	18	Jul-06
861	SONY ERICSSON	K810i							GSM	18	Jul-07
862	SONY ERICSSON	K850i							GSM	18	Jan-08

863	SONY ERICSSON	M600							GSM	18	Jan-09
864	SONY ERICSSON	P1i							GSM	18	Jan-09
865	SONY ERICSSON	P800							GSM		Apr-08
866	SONY ERICSSON	P900i							GSM		Jul-08
867	SONY ERICSSON	P990i							GSM	18	Jan-09
868	SONY ERICSSON	S302							GSM		Oct-09
869	SONY ERICSSON	S312							GSM		Jan-10
870	SONY ERICSSON	S500i							GSM	18	Oct-07
871	SONY ERICSSON	S700i							GSM	2	Dec-05
872	SONY ERICSSON	S710a							GSM	2	Apr-06
873	SONY ERICSSON	T230							GSM	2	Jul-07
874	SONY ERICSSON	T290i							GSM	2	Dec-05
875	SONY ERICSSON	T300							GSM	2	Dec-05
876	SONY ERICSSON	T310							GSM	2	Dec-05
877	SONY ERICSSON	T610							GSM	2	Dec-05
878	SONY ERICSSON	T630							GSM	2	Dec-05
879	SONY ERICSSON	T650i							GSM	18	Jan-08
880	SONY ERICSSON	T68							GSM	2	Dec-05
881	SONY ERICSSON	T68i							GSM	2	Oct-06
882	SONY ERICSSON	T700							GSM	18	Jan-09
883	SONY ERICSSON	T707							GSM	18	Oct-09
884	SONY ERICSSON	T715							GSM	18	Jan-10
885	SONY ERICSSON	TM506							GSM	18	Dec-10
886	SONY ERICSSON	U100i Yari							GSM	18	Jan-10
887	SONY ERICSSON	U10i Aino							GSM	18	Jan-10
888	SONY ERICSSON	U1i Satio							GSM		Jan-10
889	SONY ERICSSON	U5i (Vivaz)							GSM	26	May-11

890	SONY ERICSSON	V600i							GSM	2	Apr-06
891	SONY ERICSSON	V630i							GSM	18	Jul-07
892	SONY ERICSSON	V640i							GSM	18	Jul-08
893	SONY ERICSSON	V800							GSM	2	Dec-05
894	SONY ERICSSON	W200i							GSM	18	Jul-07
895	SONY ERICSSON	W300i							GSM		Jul-06
896	SONY ERICSSON	W302							GSM		Oct-09
897	SONY ERICSSON	W350							GSM	18	Oct-08
898	SONY ERICSSON	W380i							GSM	18	Jul-08
899	SONY ERICSSON	W395							GSM		Oct-09
900	SONY ERICSSON	W508							GSM	18	Oct-09
901	SONY ERICSSON	W518A							GSM	18	Dec-10
902	SONY ERICSSON	W550i							GSM	18	Dec-05
903	SONY ERICSSON	W580i							GSM	18	Oct-07
904	SONY ERICSSON	W595							GSM	18	Jan-09
905	SONY ERICSSON	W610i							GSM	18	Jul-07
906	SONY ERICSSON	W660i							GSM	18	Jan-08
907	SONY ERICSSON	W705							GSM	18	Apr-09
908	SONY ERICSSON	W710i							GSM	18	Oct-06
909	SONY ERICSSON	W760							GSM		Oct-08
910	SONY ERICSSON	W800i							GSM	18	Dec-05
911	SONY ERICSSON	W810i							GSM	18	Jul-06
912	SONY ERICSSON	W850i							GSM	18	Oct-06
913	SONY ERICSSON	W880i							GSM	18	Apr-07
914	SONY ERICSSON	W890i							GSM	18	Jul-08
915	SONY ERICSSON	W900i							GSM	18	Apr-06
916	SONY ERICSSON	W902							GSM	18	Apr-09

917	SONY ERICSSON	W910i							GSM	18	Jan-08
918	SONY ERICSSON	W950i							GSM	18	Jan-09
919	SONY ERICSSON	W960							GSM	18	Jan-09
920	SONY ERICSSON	W980							GSM	18	Jan-09
921	SONY ERICSSON	W995							GSM	18	Oct-09
922	SONY ERICSSON	X1							GSM	9	Jan-09
923	SONY ERICSSON	X10							GSM	26	May-11
924	SONY ERICSSON	Z1010							GSM	2	Jul-07
925	SONY ERICSSON	Z310i							GSM	18	Jul-07
926	SONY ERICSSON	Z500a							GSM	2	Apr-06
927	SONY ERICSSON	Z520a							GSM	18	Oct-06
928	SONY ERICSSON	Z520i							GSM	18	Dec-05
929	SONY ERICSSON	Z530i							GSM	18	Jul-06
930	SONY ERICSSON	Z550i							GSM	18	Oct-06
931	SONY ERICSSON	Z555i							GSM	18	Jul-08
932	SONY ERICSSON	Z600							GSM	2	Dec-05
933	SONY ERICSSON	Z610i							GSM	18	Apr-07
934	SONY ERICSSON	Z710i							GSM	18	Apr-07
935	SONY ERICSSON	Z770							GSM		Oct-08
936	SONY ERICSSON	Z800i							GSM	2	Dec-05
937	T-MOBILE	MDA Vario II							GSM	9	Jul-08
938	TOSHIBA	G810							GSM	9	Jul-09
939	TOSHIBA	G910							GSM	9	Jul-09
940	TOSHIBA	Portege G500							GSM	9	Jul-07
941	TOSHIBA	Portege G710							GSM	9	Apr-09
942	UBiQUiO	401							GSM	9	Jul-07
943	UBiQUiO	501							GSM	9	Jul-07

94 4	VERIZON	XV6700							GSM	9	Oct-07
94 5	VISOA	Spiderphone							GSM		Jan-10
94 6	VODAFONE	527							GSM		Jul-09
94 7	VODAFONE	533							GSM		Jul-09
94 8	VODAFONE	710							GSM		Oct-07
94 9	VODAFONE	725							GSM		Jul-09
95 0	VODAFONE	810							GSM		Jul-08
95 1	VODAFONE	830							GSM		Jul-09
95 2	ZTE	C78							CDMA		Sep-10

Handsets – Expected Support

The following handsets have not been verified on CellIDEK however their appearance or technology indicates that data extraction will be possible as shown by the icons on CellIDEK. These handsets are assigned an amber tick. It is recommended that all data is treated as a minimum extraction as there may be additional data sets available that require further examination.

Data can be extracted from these handsets as normal by selecting the device from the Manufacturers list and extracting over Bluetooth, Infrared or Cable as required.

All Windows Mobile devices can be extracted using the PDA option and selecting Windows. All Windows Mobile devices are supported by Infrared and/or Cable.

HANDSETS EXPECTED SUPPORT

MFG	MODEL	MFG	MODEL	MFG	MODEL
AIRO	A25	ASUS	P550	COMPAQ	
ACER	beTouch E100	ASUS	P552	iPAQ	3835
ACER	beTouch E200	ASUS	P560	COMPAQ	
ACER	c510	ASUS	P565	iPAQ	3850
ACER	c530	ASUS	P735	COMPAQ	
ACER	c531	ASUS	P750	iPAQ	3870
				COMPAQ	
				iPAQ	3875
				COMPAQ	
				iPAQ	3900
				COMPAQ	
				iPAQ	3950

ACER	DX650	ASUS	P835	COMPAQ	
				iPAQ	3955
ACER	DX900	ASUS	V88i	COMPAQ	
				iPAQ	3970
ACER	Liquid	ASUS	Z801	COMPAQ	
ACER	M900	ASUS	Z810	iPAQ	3975
ACER	n10	ASUS	ZX1	DAXIAN	CU928
				DELL	AXIM
ACER	n30	AT&T	2125		Pocket DJ
				DELL	20GB
					Pocket DJ
ACER	n35	AT&T	3125	DELL	30GB
ACER	n300	AT&T	5700	DELL	X3
ACER	n310	AT&T	8125	DELL	X3i
ACER	n311	AT&T	8500	DELL	X30
ACER	n320	AT&T	8525	DELL	X5
ACER	n321	AT&T	SX56	DELL	X50
ACER	neoTouch	AT&T	SX66	DELL	X50v
AIRIS	T610	AT Mobile	AT Bear	DELL	X51
AIRIS	T620	AT Mobile	AT Cobra	DOCOMO	htc Z
AMOI	E72	AT Mobile	AT Eagle	DOPOD	310
AMOI	E75	AT Mobile	AT Falcon	DOPOD	515
AMOI	E76	AT Mobile	AT Pelican	DOPOD	535
AMOI	E78	AUDIOVOX	5050	DOPOD	565
AMOI	E850	AUDIOVOX	5600	DOPOD	566
AMOI	E860	AUDIOVOX	6601	DOPOD	575
AnexTEK	moboDA 3160	AUDIOVOX	XV6600	DOPOD	585
AnexTEK	moboDA 3360	AUDIOVOX	XV6700	DOPOD	586
		BENQ-			
AnexTEK	moboDA 3380	SIEMENS	P51	DOPOD	595
		BLACKBERR			
AnexTEK	SP310	Y	8110	DOPOD	686
		BLACKBERR			
Apple	iPod Touch	Y	8130 (Pearl)	DOPOD	696
		BLACKBERR			
Apple	iPhone 5	Y	8220	DOPOD	699
		BLACKBERR			
ASUS	A696	Y	8230 (Pearl)	DOPOD	700
		BLACKBERR	Pearl 3G		
ASUS	J501	Y	9100	DOPOD	710
		BLACKBERR	9105 (Pearl		
ASUS	H502	Y	3G)	DOPOD	818
		BLACKBERR	Curve 3G		
ASUS	M530W	Y	9300	DOPOD	830
		BLACKBERR			
ASUS	M356	Y	9520	DOPOD	838
		BLACKBERR			
ASUS	M930	Y	9550	DOPOD	900
		BLACKBERR			
ASUS	Mars II	Y	9630	DOPOD	577W
		BLACKBERR			
ASUS	Mypal A626	Y	9650 (Bold)	DOPOD	586W
		BLACKBERR			
ASUS	MyPal A632	Y	9670 (Style)	DOPOD	696i

ASUS	MyPal A636	BLACKBERRY	Torch 9800	DOPOD	818 Pro
ASUS	MyPal A636N	CINGULAR	2125	DOPOD	828+
ASUS	MyPal A639	CINGULAR	3125	DOPOD	838 Pro
ASUS	MyPal A686	CINGULAR	8100	DOPOD	C500
ASUS	P305	CINGULAR	8125	DOPOD	C720W
ASUS	P320	CINGULAR	SX66	DOPOD	C730
ASUS	P505	CINGULAR			
ASUS	P525	iPAQ	h6320	DOPOD	C800
ASUS	P526	CINGULAR	h6325	DOPOD	C858
ASUS	P527	COMPAQ			
ASUS	P527	iPAQ	3800	DOPOD	CHT 9000
ASUS	P527	COMPAQ			
ASUS	P527	iPAQ	3830	DOPOD	CHT 9100
ASUS	P535	FUJITSU			
ASUS	P535	SIEMENS	N110	HP iPAQ	h3800
DOPOD	D600	FUJITSU			
DOPOD	D600	SIEMENS	N500	HP iPAQ	h3830
DOPOD	D802	FUJITSU			
DOPOD	D802	SIEMENS	N520	HP iPAQ	h3835
DOPOD	D8110	FUJITSU			
DOPOD	D8110	SIEMENS	N520c	HP iPAQ	h3850
DOPOD	M700	FUJITSU			
DOPOD	M700	SIEMENS	N520e	HP iPAQ	h3870
DOPOD	P100	FUJITSU			
DOPOD	P100	SIEMENS	N520p	HP iPAQ	h3875
DOPOD	P800W	FUJITSU			
DOPOD	P800W	SIEMENS	N560	HP iPAQ	h3900
DOPOD	S300	FUJITSU			
DOPOD	S300	SIEMENS	N560c	HP iPAQ	h3950
DOPOD	U1000	FUJITSU			
DOPOD	U1000	SIEMENS	N560e	HP iPAQ	h3955
E-PLUS	PDA III	FUJITSU			
E-PLUS	PDA III	SIEMENS	T810	HP iPAQ	h3970
E-PLUS	PDA IV	FUJITSU			
E-PLUS	PDA IV	SIEMENS	T830	HP iPAQ	h3975
ETEN	600	FUJITSU			
ETEN	600	SIEMENS	V70	HP iPAQ	h4140
ETEN	600e	GARMIN-			
ETEN	600e	ASUS	Garminfone	HP iPAQ	h4150
ETEN	DX900	GIGABYTE	g-Smart	HP iPAQ	h4155
ETEN	E500	GIGABYTE	g-Smart i	HP iPAQ	h4350
ETEN	E900	GIGABYTE	g-Smart i+	HP iPAQ	h4355
ETEN	G500	GIGABYTE	g-Smart		
ETEN	G500	GIGABYTE	i120	HP iPAQ	h5100
ETEN	G500+	GIGABYTE	g-Smart		
ETEN	G500+	GIGABYTE	i128	HP iPAQ	h5150
ETEN	M500	GIGABYTE	g-Smart		
ETEN	M500	GIGABYTE	i300	HP iPAQ	h5155
ETEN	M550	GIGABYTE	g-Smart		
ETEN	M550	GIGABYTE	i350	HP iPAQ	h5400
ETEN	M600	GIGABYTE	g-Smart		
ETEN	M600	GIGABYTE	MS800	HP iPAQ	h5450
ETEN	M600+	GIGABYTE	g-Smart	HP iPAQ	h5455

ETEN	M700	GIGABYTE	MS802 g-Smart	HP iPAQ	h5500
ETEN	M800	GIGABYTE	MS804 g-Smart	HP iPAQ	h5555
ETEN	M810	GIGABYTE	MS808 g-Smart	HP iPAQ	h6310
ETEN	N100	GIGABYTE	MS820 g-Smart	HP iPAQ	h6315
ETEN	P100	GIGABYTE	MW700 g-Smart	HP iPAQ	h6320
ETEN	P100w	GIGABYTE	MW702 g-Smart	HP iPAQ	h5325
ETEN	P120	GIGABYTE	MW998 g-Smart q60	HP iPAQ	h6340
ETEN	P300	GIGABYTE	g-Smart S1200	HP iPAQ	h6365
ETEN	P600	GIGABYTE	g-Smart t600	HP iPAQ	h6500
ETEN	P603	HP iPAQ	114	HP iPAQ	hw6510
ETEN	P610	HP iPAQ	214	HP iPAQ	hw6515
ETEN	P700	HP iPAQ	500	HP iPAQ	h6515a
ETEN	P700i	HP iPAQ	510	HP iPAQ	h6710
ETEN	T470	HP iPAQ	512	HP iPAQ	h6715
ETEN	T500	HP iPAQ	610c	HP iPAQ	hw6900
ETEN	V900	HP iPAQ	614	HP iPAQ	hw6910
ETEN	X500	HP iPAQ	614c	HP iPAQ	hw6920
ETEN	X500+	HP iPAQ	9120c	HP iPAQ	hw6925
ETEN	X600	HP iPAQ	Glisten	HP iPAQ	h6940
ETEN	X610	HP iPAQ	h1900	HP iPAQ	hw6945
ETEN	X650	HP iPAQ	h1910	HP iPAQ	h6965
ETEN	X800	HP iPAQ	h1915	HP iPAQ	hx2000
EVEREX	NEON	HP iPAQ	h1920	HP iPAQ	hx2090
FITH					
MEDIA	A308	HP iPAQ	h1930	HP iPAQ	nx2110
FLY	IQ-110	HP iPAQ	h1935	HP iPAQ	hx2190
FUJITSU					
SIEMENS	410	HP iPAQ	h1937	HP iPAQ	hx2400
FUJITSU					
SIEMENS	420	HP iPAQ	h1940	HP iPAQ	hx2410
FUJITSU					
SIEMENS	600	HP iPAQ	h1945	HP iPAQ	hx2415
FUJITSU					
SIEMENS	710	HP iPAQ	h2200	HP iPAQ	hx2490
FUJITSU					
SIEMENS	718	HP iPAQ	h2210	HP iPAQ	hx2495
FUJITSU					
SIEMENS	720	HP iPAQ	h2215	HP iPAQ	hx2700
FUJITSU					
SIEMENS	610BT	HP iPAQ	h3630	HP iPAQ	hx2750
FUJITSU					
SIEMENS	C550	HP iPAQ	h3670	HP iPAQ	hx2790
FUJITSU					
SIEMENS	N100	HTC	Himalaya	HTC	Vox
HP iPAQ	hx2795	HTC	Hurricane	HTC	Voyager

HP iPAQ	hx4700	HTC	Imagio	HTC	Wallaby
HP iPAQ	hx4705	HTC	Inspire 4G	HTC	Wizard
HP iPAQ	hx4710	HTC	Libra	HTC	XV6900
HP iPAQ	K3 Obsidian	HTC	Love	IMATE	JAM Black
HP iPAQ	rw6815	HTC	Magician	IMATE	JAMA
HP iPAQ	rw6818	HTC	MAX 4G	IMATE	JAMA101
HP iPAQ	rw6828	HTC	Monet	IMATE	JAMA 201
HP iPAQ	rx1700	HTC	MTeoR	IMATE	JAQ
HP iPAQ	rx1950	HTC	Nike	IMATE	JAQ3
HP iPAQ	rx1955	HTC	Oxygen	IMATE	JAQ4
HP iPAQ	rx3100	HTC	Ozone	IMATE	JASJAM
HP iPAQ	rx3110	HTC	P3350	IMATE	PDA-2
HP iPAQ	rx3115	HTC	P3400	IMATE	EDVO
HP iPAQ	rx3400	HTC	P3600	IMATE	PDAL
HP iPAQ	rx3415	HTC	P4000	IMATE	PDA-N Phone Edition
HP iPAQ	rx3417	HTC	P4350	IMATE	Pocket PC
HP iPAQ	rx3700	HTC	P4450	IMATE	Smartflip
HP iPAQ	rx3710	HTC	P4500	IMATE	Smartphone
HP iPAQ	rx3715	HTC	P6300	IMATE	Smartphone 2
HP iPAQ	rx4240	HTC	P6500	IMATE	SP2
HP iPAQ	rx5700	HTC	Panda	IMATE	SP3
HP iPAQ	rx5900	HTC	Polaris	IMATE	SP4m
HP iPAQ	rz1700	HTC	Prophet	IMATE	SP5m
HP iPAQ	rz1715	HTC	Pure	IMATE	
HTC	Advantage X7500	HTC	Robbie	IMATE	SPJAS
HTC	Advantage X7501	HTC	S320	IMATE	Ultimate 5150
HTC	Advantage A7510	HTC	S630	IMATE	Ultimate 6150
HTC	Alphine	HTC	S720	IMATE	Ultimate 7150
HTC	Amadeus	HTC	S730	IMATE	8150
HTC	Apache	HTC	Sensation 4G	IMATE	Ultimate 8502
HTC	Aria	HTC	Shadow Hotspot	IMATE	Ultimate 9150
HTC	Artemis	HTC	Shift	IMATE	Ultimate 9502
HTC	Athena	HTC	Sirius	IMATE	810-F
HTC	Atlas	HTC	Sonata	INTERMEC	730
HTC	Blue Angel	HTC	Star Trek	INTERMEC	730B
HTC	Breeze	HTC	Surround	INTERMEC	741B
HTC	Canary	HTC	Tanager	INTERMEC	751B
HTC	Cavalier	HTC	Thunderbolt	INTERMEC	761B
HTC	Charmer	HTC	Tilt2	INTERMEC	CN2B
HTC	Dash 3G	HTC	Touch2	INTERMEC	CN3
HTC	Dream	HTC	Touch 3G	INTERMEC	CN30
HTC	Elf	HTC	Touch Cruise 09	INTERMEC	Mercury

HTC	EVO View 4G (Tablet)	HTC	Touch Dual	i-teq	Bond
HTC	Excalibur	HTC	Touch HD	i-teq	Laser
HTC	Falcon	HTC	Touch Pro	i-teq	X-Bond
					KRMA
HTC	Faraday	HTC	Touch Pro 2	IZENMOBILE	KSMT
HTC	Feeler	HTC	Touch Viva	KINPO	iDO S601
HTC	Flyer (tablet)	HTC	Tilt	KINPO	IDO S630
HTC	Galaxy	HTC	Trinity	KINPO	SP70
HTC	Gene	HTC	Typhoon	KINPO	SP70R
HTC	Harrier	HTC	TyTN	KINPO	SP90
					Intellekt
HTC	HD2	HTC	Universal	KROME	iQ200
					Intellekt
HTC	Herald	HTC	Volans	KROME	iQ700
HTC	Hermes	MITAC	P3400	MOTOROLA	Flipout
KROME	Mega M900i	MITAC	P350	MOTOROLA	Flipside
KROME	Navigator F1	MITAC	P550	NEONODE	N1
KROME	Spy	MITAC	OP550m	NEONODE	N1m
LENOVO	ET960	MITAC	P560	NEONODE	N2
			Trium		
LENOVO	ET980	MITSUBISHI	Mondo	NEXIO	S160
LENOVO	i921	MWG	Atom Life	NEXIO	XP40
LG	Incite	MWG	Atom V	NOKIA	2320 Classic
LG	KB770	MWG	Zinc II	NOKIA	2605
LG	KC1	MOTOROLA	A845	NOKIA	2705 Shade
LG	KE990	MOTOROLA	A3100	NOKIA	3205
LG	KF300	MOTOROLA	C250	NOKIA	3606
LG	KF310	MOTOROLA	C343a	NOKIA	3711
LG	KF350	MOTOROLA	C353	NOKIA	5030
LG	KF700	MOTOROLA	C353t	NOKIA	5250
LG	KF750	MOTOROLA	C380	NOKIA	6012
LG	KF755	MOTOROLA	E550	NOKIA	6102
LG	KF770	MOTOROLA	i275	NOKIA	6121
LG	KF900	MOTOROLA	i720	NOKIA	6126
LG	KP100	MOTOROLA	i733	NOKIA	6205
LG	KP501	MOTOROLA	i740	NOKIA	6350
LG	KS20	MOTOROLA	i920	NOKIA	6560
LG	KT610	MOTOROLA	i920	NOKIA	6590
LG	KU380	MOTOROLA	i930	NOKIA	6681
LG	Optimus GT540	MOTOROLA	MC35	NOKIA	6682
	P509 (Optimus T)				6710
LG	U8100	MOTOROLA	MPx	NOKIA	Navigator
LG	U8150	MOTOROLA	MPx100	NOKIA	6750
LG	U8180	MOTOROLA	T720i	NOKIA	7205
LG	U8210	MOTOROLA	V1150	NOKIA	7250
LG	U8290	MOTOROLA	V120e	NOKIA	8801
LG	U8300	MOTOROLA	V120t	NOKIA	8890
LG	Quantum	MOTOROLA	V120x	NOKIA	6236i
MIO	A502	MOTOROLA	V186	NOKIA	C5
MIO	A702	MOTOROLA	V191	NOKIA	C6
		MOTOROLA	V330	NOKIA	E5

MIO	P3600	MOTOROLA	V505	NOKIA	E52
MIO	P560	MOTOROLA	V535	NOKIA	E61i
MITAC	168	MOTOROLA	V545	NOKIA	E62
MITAC	169	MOTOROLA	V547	NOKIA	E66
MITAC	180	MOTOROLA	V555	NOKIA	E72
MITAC	336	MOTOROLA	V557	NOKIA	E90
MITAC	338	MOTOROLA	V60	NOKIA	N8
MITAC	339	MOTOROLA	V60c	NOKIA	N75
MITAC	558	MOTOROLA	V60g	NOKIA	N78
MITAC	728	MOTOROLA	V60i	NOKIA	N81
MITAC	8380	MOTOROLA	V60s	NOKIA	N92
MITAC	8390	MOTOROLA	V60t	NOKIA	X5
MITAC	8870	MOTOROLA	V60x	O2	Cosmo
MITAC	168RS	MOTOROLA	V66	O2	Pocket PC
MITAC	336BT	MOTOROLA	Z10	O2	XDA Argon
MITAC	338 Plus	MOTOROLA	Backflip	O2	XDA Atom
					XDA Atom
MITAC	A201	MOTOROLA	Bravo	O2	Exec
					XDA Atom
MITAC	A501	MOTOROLA	Charmer	O2	Life
					XDA Atom
MITAC	A700	MOTOROLA	Cliq 2	O2	Pure
MITAC	A701	MOTOROLA	Defy	O2	XDA Comet
MITAC	A702	ORANGE	SPV M5000	QTEK	S310
					Pocket
O2	XDA Cosmo	ORANGE	SPV M600	QUEST	PC6700
O2	XDA Exec	ORANGE	SPV M650	ROVER PC	C6
O2	XDA Flame	ORANGE	SPV M700	ROVER PC	E5
			SPV		
O2	XDA Graphite	ORANGE	Smartphone	ROVER PC	G5
O2	XDA Guide	ORSiO	G735	ROVER PC	G6
O2	XDA Ignito	ORSiO	GN725	ROVER PC	M5
O2	XDA II	ORSiO	N725 GPS	ROVER PC	N6
O2	XDA ii mini	ORSiO	P745	ROVER PC	N7
O2	XDA iis	PALM	Treo 700w	ROVER PC	P6
O2	XDA mini S	PALM	Treo 700wx	ROVER PC	P745
O2	XDA NEO	PALM	Treo 750V	ROVER PC	Q5
O2	XDA Nova	PALM	Treo 755p	ROVER PC	Q6
O2	XDA Orbit	PALM	Treo 800w	ROVER PC	R5
			Tungsten		
O2	XDA Orbit II	PALM	E2	ROVER PC	S5
			Tungsten		
O2	SDA Orion	PALM	T5	ROVER PC	S6
O2	XDA Phone	PANASONIC	X700	ROVER PC	S7
O2	XDA Stealth	PANASONIC	X800	ROVER PC	W5
O2	XDA Serra	PANTECH	PN820	SAMSUNG	B7320
		PARAGON			B7330,
O2	XDA Stellar	WIRELESS	HIPI-2200	SAMSUNG	OmniaPRO
			600 GPS		B7610
O2	XDA Terra	PHAROS	Phone	SAMSUNG	OmniaPRO
			Traveller		
O2	XDA Trion	PHAROS	GPS 525	SAMSUNG	C6620

O2	XDA Zest	POCKET NAVIGATOR	PN-3550	SAMSUNG	C3010
O2	XDA Zinc	POCKET NAVIGATOR	PN-3560	SAMSUNG	C3110
O2	Xphone	POCKET NAVIGATOR	PN-P201	SAMSUNG	E1310
O2	Xphone ii	POCKET NAVIGATOR	PN-P550 A	SAMSUNG	i520(Symbian)
O2	Xphone iim	POCKET NAVIGATOR	PN-P550 A	SAMSUNG	i550(Symbian)
OKWAP	K728	PSION TEKLOGIX	PRO	SAMSUNG	i560(Symbian)
OKWAP	K868	PSION TEKLOGIX	Workabout PRO G2	SAMSUNG	i640
OKWAP	K860	QOOL LABS	QDA Icon	SAMSUNG	i7110(Symbian)
OKWAP	K871	QOOL LABS	QDA Lite	SAMSUNG	i7500(Android)
OKWAP	S868	QOOL LABS	Twins 178	SAMSUNG	i8910
OPTICON	H-16B	QTEK	1010	SAMSUNG	i907
OPTICON	H-19A	QTEK	2020	SAMSUNG	M7610
OPTICON	H-19-B	QTEK	2060	SAMSUNG	Propel Pro
OPTICON	PHL-5400	QTEK	7070	SAMSUNG	S3110
OPTICON	PHL-7111	QTEK	8010	SAMSUNG	S3310
OPTICON	PHL-7114	QTEK	8020	SAMSUNG	S5230W
OPTICON	PHL-7142	QTEK	8060	SAMSUNG	S5233
ORANGE	SPV C100	QTEK	8080	SAMSUNG	S5600v
ORANGE	SPV C200	QTEK	8100	SAMSUNG	Blade
ORANGE	SPV C220	QTEK	8200	SAMSUNG	S5603
ORANGE	SPV C700	QTEK	8300	SAMSUNG	S7350
ORANGE	SPV Classic	QTEK	8310	SAMSUNG	SCH-i830
ORANGE	SPV E100	QTEK	8500	SAMSUNG	SCH-M400
ORANGE	SPV E200	QTEK	8600	SAMSUNG	SGH-A257
ORANGE	SPV E600	QTEK	9000	SAMSUNG	SGH-A877
ORANGE	SPV E610	QTEK	9090	SAMSUNG	SGH-A887
ORANGE	SPV E650	QTEK	9100	SAMSUNG	SGH-D300
ORANGE	SPV F600	QTEK	9600	SAMSUNG	SGH-D730(Symbian)
ORANGE	SPV M1000	QTEK	2020i	SAMSUNG	SGH-E808
ORANGE	SPV M2000	QTEK	G100	SAMSUNG	SGH-i250
ORANGE	SPV M2500	QTEK	S100	SAMSUNG	SGH-i300x
ORANGE	SPV M3000	QTEK	S110	SAMSUNG	SGH-i400(Symbian)
ORANGE	SPV M3100	QTEK	S200	SAMSUNG	SGH-i450(Symbian)
ORANGE	SPV M500	SONY ERICSSON	T226	T-MOBILE	SGH-i718
SAMSUNG	SGH-i750	SONY ERICSSON	T237	T-MOBILE	MDA
SAMSUNG	SGH-i760	SONY	T290a	T-MOBILE	MDA Compact
				T-MOBILE	MDA

SAMSUNG	SGH-i770	ERICSSON			Compact II
		SONY			MDA
SAMSUNG	SGH-i897	ERICSSON	T616	T-MOBILE	Compact III
		SONY			
SAMSUNG	SGH-i917	ERICSSON	T637	T-MOBILE	MDA II
	i9000 (Galaxy S	SONY			
SAMSUNG	4G)	ERICSSON	W300c	T-MOBILE	MDA III
	i9100 (Galaxy S	SONY			
SAMSUNG	2)	ERICSSON	W550c	T-MOBILE	MDA Mail
	SGH-	SONY			
SAMSUNG	L870(Symbian)	ERICSSON	W600	T-MOBILE	MDA Pro
		SONY			MDA Pocket
		ERICSSON	W600c	T-MOBILE	PC
		SONY			
SAMSUNG	SGH-P730	ERICSSON	W710c	T-MOBILE	MDA Touch
		SONY			
SAMSUNG	SGH-T929	ERICSSON	W715a	T-MOBILE	MDA Vario
	SGH-T589	SONY			MDA Vario
SAMSUNG	(Gravity Smart)	ERICSSON	W800c	T-MOBILE	III
	SGH-T759	SONY			myTouch 3G
SAMSUNG	(Exhibit 4G)	ERICSSON	W810c	T-MOBILE	slide
		SONY			
SAMSUNG	SGH-T959	ERICSSON	W830	T-MOBILE	myTouch 4G
		SONY			
SAMSUNG	SGH-Z600	ERICSSON	W880c	T-MOBILE	SDA
		SONY			
SHARP	W-ZERO3	ERICSSON	W888c	T-MOBILE	SDA II
		SONY			
SIEMENS	A62	ERICSSON	W900c	T-MOBILE	SDA Music
		SONY			
SIEMENS	C6620	ERICSSON	Xperia X10	T-MOBILE	Shadow 2
		SONY	Xperia X10		
SIEMENS	L56	ERICSSON	mini	T-MOBILE	Sidekick 4G
		SONY			
SIEMENS	S56	ERICSSON	Xperia X8	T-MOBILE	Wing
		SONY			
SIEMENS	S66	ERICSSON	Z502a	T-MOBILE	h6315
		SONY			
SIEMENS	SX45	ERICSSON	Z520c	TOSHIBA	G900
		SONY			
SIEMENS	SX45i	ERICSSON	Z525a	TOSHIBA	TG01
		SONY			
SIEMENS	SX56	ERICSSON	Z525i	UBIQUIO	601
		SONY			
SIEMENS	SX66	ERICSSON	Z530c	UBIQUIO	503G
SOCKET		SONY		VELOCITY	
MOBILE	SoMo 650	ERICSSON	Z550a	MOBILE	103
SONY	C901	SONY		VELOCITY	
ERICSSON	GreenHeart	ERICSSON	Z550c	MOBILE	111
SONY		SONY		VERIZON	
ERICSSON	G900	ERICSSON	Z710c	WIRELESS	PN-820
SONY		SONY		VERIZON	
ERICSSON	J300a	ERICSSON	Z712a	WIRELESS	XV6600
SONY				VERIZON	
ERICSSON	J300c	SPRINT	Ace	WIRELESS	XV6800
SONY	K300a	SPRINT	PPC-6600	VODAFONE	v1210

ERICSSON					
SONY					
ERICSSON	K300c	SPRINT	PPC-6601	VODAFONE	v1240
SONY					
ERICSSON	K310a	SPRINT	PPC-6700	VODAFONE	v1415
SONY					
ERICSSON	K310c	SPRINT	PPC-6800	VODAFONE	v1605
SONY					
ERICSSON	K500c	SPRINT	XV6600	VODAFONE	v1620
SONY			Nomad		
ERICSSON	K506c	TDS	800B	VODAFONE	v1640
SONY			Nomad		
ERICSSON	K510a	TDS	800L	VODAFONE	VDA
					VDA
SONY			Nomad		Compact
ERICSSON	K510c	TDS	800LC	VODAFONE	GPS
SONY			Nomad		VDA
ERICSSON	K610im	TDS	800LE	VODAFONE	Compact IV
SONY			Ranger		
ERICSSON	K700c	TDS	300X	VODAFONE	VDA II
SONY			Ranger		
ERICSSON	K750c	TDS	500X	VODAFONE	VDA V
SONY					VPA
ERICSSON	K758c	T-MOBILE	Ameo	VODAFONE	Compact
SONY					VPA II
ERICSSON	K790a	T-MOBILE	Comet	VODAFONE	Compact
SONY					
ERICSSON	K790c	T-MOBILE	Dash	VODAFONE	VPA III
SONY					
ERICSSON	K790i	T-MOBILE	G2	VOXTEL	W210
SONY					
ERICSSON	M608i	T-MOBILE	G2x	VOXTEL	W420
SONY					
ERICSSON	S700c			VOXTEL	W520
				VOXTEL	W740

Handsets – Other

Other handsets can be tested on CellIDEK, however the amount of data extracted has not been assessed and all information should be treated as a minimum data extraction.

GPS Device – Verified CellIDEK Support

The following GPS Devices have been tested on CellIDEK using the standard verification procedures of Logicube. The results below display the data sets that can be extracted from CellIDEK for the specific handset. There may be additional data sets available from handsets and these will require further examination.

Key:

Phone ID		Home		Routes	
Contacts		Favourites		Routes with Waypoints	
Call Logs		Recent Destinations		Track Logs	
Call Logs w timestamp		Location History		Track Logs with Waypoints	
SMS					
SMS w timestamp					

	Manufacturer	Model	GPS ID	Contacts	Call Logs	Incoming SMS	Outgoing SMS	Home	Favourite	Recent Destinations	Location History	Routes	Tracks	
1	ACER	P610							★					Apr 2009
2	GARMIN	nuvi 250W							★					Oct 2008
3	GARMIN	nuvi 300							★					Oct 2008
4	GARMIN	nuvi 760							★					Apr 2009
5	HP	iPAQ 314							★					Jan 2009
6	NAVIGON	7210							★					Jul 2009
7	NAVMAN	S50 3D							★					Jul 2009
8	NAVMAN	S70							★					Jul 2009

9	NAVMAN	S70 3D							★					Jul 2009
10	NDRIVE	S300							★					Apr 2009
11	TOMTOM	GO 720							★					Jul 2008
12	TOMTOM	ONE							★					Jul 2008
13	TOMTOM	ONE XL							★					Jan 2010
14	VIAMICHELIN	X970							★					Jan 2010

GPS Device – Expected Support

The following GPS Devices have not been verified on CellDEK however their appearance or technology indicates that data extraction will be possible. It is recommended that all data is treated as a minimum extraction as there may be additional data sets available that require further examination.

Data can be extracted from these handsets as normal by selecting either Mass Storage Device or Windows PDA from the GPS Device list.

GARMIN nuvi: 200, 200W, 205, 205W, 250, 255W, 260, 260W, 265T, 265WT, 270, 275T, 350, 360, 370, 500, 550, 600, 610, 650, 660, 670, 680, 750, 755T, 765T, 770, 775T, 780, 785T, 850, 855, 855T, 880, 885T, 1200, 1250, 1260T, 1300, 1350T, 1370T, 1390T, 1490T, 5000

NAVIGON: 1200, 1210, 2100 max, 2110 max, 2150 max, 2200, 2310, 3300 max, 3310 max, 4310 max, 4350 max, 7310, 8110, 8310

NAVMAN: S30, S30 3D, S50, S80, S90i

NDRIVE: G280R, G280S, G400, G800R, S400, Touch, Touch XL

TOMTOM: GO, GO 300, GO 500, GO 510, GO 520, GO 530, GO 540 LIVE, GO 700, GO 710, GO 730, GO 740 LIVE, GO 910, GO 920, GO 940 LIVE, XL

Additional Cable Support for PDAs

The set of 5 cable tips can be purchased from <http://www.gomadic.com/celldek.html> This will enable the User to extract data from the following 150 PDAs:

PDA Cable Tip 1

DELL: Axim X5

PDA Cable Tip 2

CINGULAR iPAQ: h6320, h6325

COMPAQ iPAQ: 3800, 3830, 3835, 3850, 3870, 3875, 3900, 3950, 3955, 3970, 3975

HP iPAQ: h1900, h1910, h1915, h1920, h1930, h1935, h1937, h1940, h1945, h2200, h2210, h2215, h3800, h3830, h3835, h3850, h3870, h3875, h3900, h3950, h3955, h3970, h3975, h4140, h4150, h4350, h4355, h5100, h5150, h5155, h5400, h5450, h5455, h5500, h5550, h5555, h6315, h6320, h6325, h6340, h6365, hw6500, hw6510, hw6515a, hw6515, hw6710, hw6715, hw6910, hw6915, hw6925, hw6940, hw6965, hx2000-Series, hx2090, hx2110, hx2190, hx2410, hx2415, hx2490, hx2495, hx2700-Series, hx2750, hx2790, hx2795, hx4700, hx4705, hx4710, rx1700-Series, rx1950, rx1955, rx3100, rx3110, rx3115, rx3400, rx3415, rx3417, rx3700, rx3710, rx3715, rz1700, rz1710, rz1715

MOTOROLA: C250

T-MOBILE iPAQ: h6315

PDA Cable Tip 8

AT&T: SX56, SX66

AUDIOVOX: 5050, 6601, XV6600

CINGULAR: SX66

HTC: Blue Angel, Canary, Falcon, Harrier, Himalaya, Tanager, Voyager, Wallaby

I-MATE: PDA2k, PPC Phone, Smartphone 1, Smartphone 2

O2: XDA Ili, XDA IIs, XDA-II, XDA PPC Phone, XPhone I

ORANGE: SPV-E100, SPV-E200, SPV-M1000, SPV-M2000, SPV-Smartphone

QTEK: 1010, 2020, 7070, 8060, 8080, 9090

SIEMENS: SX56, SX66

SPRINT: 6601, XV6600

T-MOBILE: MDA, MDA II, MDA III, PPC Edition

VERIZON: XV6600

PDA Cable Tip 11

DELL: Axim X30, Axim X3i, Axim X3, Pocket DJ 20GB, Pocket DJ 30GB

PDA Cable Tip 13

DELL: Axim X50v, Axim X50, Axim X51v, Axim X51

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9. CellDEK Software License

CellDEK Software License - EU

EU CUSTOMER LICENCE

BETWEEN LOGICUBE, INC. (the “**Licensor**”); and the End User (“**You**”).

RECITAL

- (A) The Licensor is engaged in creating and is the owner of the Software (as hereinafter defined).
- (B) The Licensor has agreed to grant You a non-exclusive licence to use the Software (as hereinafter defined) upon the terms and conditions of this Agreement.
- (C) The Licensor has provided You with a copy of the End User Software License (as hereinafter defined) which grants You a license to use the Microsoft and related software contained within the PC embedded in the CellDEK device.

OPERATIVE PROVISIONS

1 DEFINITIONS AND INTERPRETATION

1.1 In this Agreement including the Schedule hereto the following words shall have the following meanings:

“Agreement”

means this agreement, including its Schedule;

“Business Day”

means any day other than Saturdays, Sundays or public holidays in England;

“Commencement Date”

means the date of the Contract;

“Contract”

means the contract between the Parties for the purchase of the Goods in which the Software is embedded;

“Customer”

means a third party who is licensed by the Licensor to use the Software when it is installed into the Goods;

“End User License”

means the paper license provided with the CellDEK device for software within the embedded PC;

“Executable Code”

means the fully compiled version of a software programme that can be executed by a computer and used by a Customer without further compilation;

“Force Majeure”

means the following:

- (a) Acts of God;
- (b) outbreak of hostilities, riot, civil disturbance, acts of terrorism;
- (c) an act of any government or authority (including refusal or revocation of any licence or consent);
- (d) fire, explosion, flood, fog or bad weather;
- (e) power failure, failure of telecommunication lines, failure or breakdown of plant, machinery or vehicles;
- (f) default of suppliers or sub-contractors;

(g) theft, malicious damage, strike, lock-out or industrial action of any kind; and

(h) any cause or circumstance whatsoever beyond the reasonable control of a Party;

“Goods”

means CellDEK mobile phone and PDA data extraction kit;

“Intellectual Property Rights”

means all inventions (whether patentable or not), patents, utility models, designs (both registered and unregistered and including rights in semiconductor topographies), copyright, database rights, trade and service marks (both registered and unregistered) together with all applications for, right to the grant of and extensions of the same, and all other intellectual and industrial property including but not limited to all similar or analogous rights throughout the world, in each case for the full term of the relevant right;

“Licensed Software Materials”

means the Software, the Software Documentation, the Periodic New Releases, any Releases and any fixes created and which are provided to You pursuant to the Contract;

“Periodic New Releases”

means a release of the Software that is made available to all Customers and that corrects errors or changes or improves the Software’s utility, efficiency or capability and associated cable upgrade specifications and which is provided to You pursuant to the Contract;

“Party”

means each of the persons identified as parties to this Agreement and jointly **“the Parties”**;

“Release”

means the most recent standard version of the Software made available to all Customers and which is provided to You pursuant to the Contract;

“Software”

means the software programs in Executable Code only and which are listed in the Schedule;

“Software Documentation”

means the instruction manuals, user guides and other information and any modifications or additions thereto to be made available by the Licensor at its discretion to You in either printed or machine readable form;

“Software Specifications”

means the technical specifications from time to time published by the Licensor in respect of the Software; and

“Use”

means the copying or transmission of the Software or (where in machine readable form) the Software Documentation for use in accordance with the instructions contained in the Software or (as the case may be) the Software Documentation.

1.2 In this Agreement unless the context requires otherwise:

1.2.1 the singular includes the plural and vice versa and any gender includes any other gender;

1.2.2 references to Clauses and Schedules are to Clauses of, and schedules to, this Agreement;

1.2.3 any reference to an enactment, order, regulation or other similar instrument includes a reference to that enactment, order, regulation or instrument as from time to time amended, extended or re-enacted;

1.2.4 references to persons include bodies corporate, unincorporated associations and partnerships, and any reference to the Parties include their respective successors, permitted assigns and personal representatives; and

1.2.5 any reference to “company”, “subsidiary” and “holding company”

shall be as defined in section 736 of the Companies Act 1985.

1.3 The headings of this Agreement are for ease of reference only and shall not affect its interpretation or construction.

1.4 In the event of a conflict between any of the terms of this Agreement including its Schedules and appendices, the conflict shall be resolved according to the following order of priority:

- 1.4.1 the Clauses of this Agreement;
- 1.4.2 the Schedules of this Agreement; and
- 1.4.3 the Recitals.

2 GRANT OF LICENCE

- 2.1 The Licensor hereby grants to You a non-exclusive non-transferable licence to Use the Software (and where appropriate the Software Documentation, any Periodic New Releases and any Releases) and to possess and refer to the Software Documentation (the "**Licence**") in accordance with and subject to the terms and conditions of this Agreement.
- 2.2 The Licensor has provided a copy of the the End User License to You. By using the Software You are granted a license to the software in PC embedded in the CellDEK device and You agree to be bound by the terms of the End User License agreement.

3 TERM

This Agreement shall commence on the Commencement Date and shall continue in force unless or until terminated by either Party in accordance with the provisions of Clause 10.

4 PROPERTY AND CONFIDENTIALITY IN THE LICENSED SOFTWARE MATERIALS

4.1 The Licensed Software Materials contain Confidential Information (as defined in Clause 9.1 below) of the Licensor and all Intellectual Property Rights in the Licensed Software Materials are the exclusive property of or are licensed to the Licensor.

4.2 You shall not:

- 4.2.1 save as provided in Clause 5 below copy the whole or any part of the Licensed Software Materials;
- 4.2.2 save as required to be permitted by law modify, merge or combine the whole or any part of the Licensed Software Materials with any other software or documentation;
- 4.2.3 remove or tamper with any proprietary notice contained in the Licensed Software Materials;
- 4.2.4 assign, license, transfer, sell, lease, rent, charge or otherwise deal in or encumber the Licensed Software Materials nor use on behalf of or make available the same to any third party; or
- 4.2.5 save as required to be permitted by law reverse compile the whole or any part of the Licensed Software Materials from object code into source code.

4.3 You shall:

- 4.3.1 keep confidential the Licensed Software Materials and limit access to the same to those of its employees, agents and sub-contractors who either have a need to know or who are engaged in the Use of the Software (including where appropriate the Software Documentation);
- 4.3.2 reproduce on any copy of the Software or Licensed Software Materials the Licensor's copyright and trade mark notices;
- 4.3.3 maintain an up-to-date record of the number of copies of the Licensed Software Materials and their location and upon request forthwith produce such record to the Licensor;
- 4.3.4 only use the Software in accordance with the number of copies licensed to You (and as set out in the Schedule);
- 4.3.5 without prejudice to the foregoing take all such other steps as shall from time to time be necessary to protect the Confidential Information (as defined in Clause 9.1 below) and Intellectual Property Rights of the Licensor in the Licensed Software Materials;
- 4.3.6 in its Use of the Licensed Software Materials comply with all

present and future statutes, laws, ordinances, regulations and/or guidelines of any applicable jurisdiction or agency;

4.3.7 ensure that its personnel are, at all times, educated and trained in the proper Use and operation of the Licensed Software Materials;

4.3.8 ensure that the Licensed Software Materials are used in accordance with any and all applicable Software Documentations; and

4.3.9 indemnify and hold harmless the Licensor from and against all claims, damages, losses, judgments, fees, expenses and costs, including legal costs, arising out of or resulting from Your acts, negligence or failure to comply with this Clause 4 or any other provision of this Agreement.

4.4 You shall inform all relevant employees, agents and sub-contractors that the Licensed Software Materials constitute Confidential Information (as defined below) of the Licensor and that all Intellectual Property Rights therein are the property of or are licensed to the Licensor and the You shall take all such steps as shall be necessary to ensure compliance by its employees agents and sub-contractors with the provisions of this Clause 4.

5 COPYING OF THE LICENSED SOFTWARE MATERIALS

5.1 You shall be entitled to make one back-up copy of the Software. Any such copy shall in all respects be subject to the terms and conditions of this Agreement and shall be deemed to form part of the Software.

5.2 You shall not be entitled to copy in whole or in part the Software Documentation.

6 WARRANTY

6.1 Subject to the exceptions set out in Clause 6.3 below and the limitations upon its liability in Clause 7 below the Licensor warrants that:

6.1.1 it has the right, power and authority to license the Licensed Software Materials upon the terms and conditions of this Agreement; and

6.1.2 the Software will for a period of twelve (12) months from the date it is delivered to You conform to the Software Specifications.

6.2 You shall give notice to the Licensor as soon as it is reasonably able upon becoming aware of a breach of warranty. If no such notice is given within 30 days of You becoming aware of a breach of warranty, the Licensor shall not be liable for such breach of warranty.

6.3 The Licensor shall have no liability to remedy a breach of warranty where such breach arises:

6.3.1 in respect of Software that is not properly licensed pursuant to Clause 2 of this Agreement;

6.3.2 in circumstances where You is not in conformity with the minimum technical requirements and prerequisites set out in the Software Specifications; or

6.3.3 as a result of:

- a) the improper use, operation or neglect of either the Software or the Goods upon which the Software is installed or used;
- b) the modification of the Software or its merger (in whole or in part) with any other software;
- c) the failure by You to implement recommendations in respect of or solutions to faults previously advised by the Licensor;
- d) any repair, adjustment, alteration or modification of the Software by any person other than the Licensor without the Licensor's prior consent;
- e) failure by You adequately to back-up the Software;
- f) any breach by You of any of its obligations under any maintenance agreement in respect of the Goods upon which the Software is installed or used;
- g) any failure, accident, neglect or misuse of equipment, software or media not supplied by the Licensor;

- h) Your failure to install and Use in substitution for the previous release any New Release of the Software within ninety (90) days of receipt of the same; or
- i) the use of the Software for a purpose for which they were not designed.

6.4 Without prejudice to the foregoing the Licensor does not warrant that the Use of the Software will meet Your requirements or that the operation of the Software (including where in machine-readable form the Software Documentation) will be uninterrupted or error free.

6.5 Nothing in this Agreement shall obligate the Licensor to improve or otherwise support the Licensed Software Materials.

6.6 Subject to the foregoing all conditions, warranties, terms, representations (unless fraudulent) and undertakings express or implied, statutory or otherwise in respect of the Licensed Software Materials are hereby excluded to the fullest extent permissible by law.

7 LIMITATION OF LIABILITY

7.1 Where any sustainable claim is made by You in respect of any breach of the warranties given by the Licensor pursuant to clause 6 above, the Licensor shall be entitled at its option either to replace or repair the Software free of charge. This shall be Your sole and exclusive remedy and the Licensor shall have no further liability to You for breach of such warranties.

7.2 Subject to Clause 7.1 above and without prejudice to Clause 7.4, and except as otherwise provided in this Agreement, the total liability of the Licensor in contract, tort (including negligence or breach of statutory duty) or otherwise arising by reason of or in connection with this Agreement shall be limited in aggregate to the total price paid and payable by You for the Goods under the Contract.

7.3 Without prejudice to Clause 7.4, in no event shall the Licensor be liable to You for loss of revenue, loss of anticipated savings, loss of profits, loss of data, damage to goodwill, loss of reputation or for any type of indirect, economic or consequential loss or damage whatsoever or howsoever caused.

7.4 Neither party excludes or limits liability to the other for death or personal injury caused by its negligence or for fraud.

7.5 Save as expressly stated in this Agreement, all conditions, warranties and representations (unless fraudulent) expressed or implied by statute, common law or otherwise in relation to the Licensed Software Materials are hereby excluded to the fullest extent permissible by law.

8 RISK IN THE LICENSED SOFTWARE MATERIALS

Risk in the Licensed Software Materials will pass to You upon the date of delivery of the Licensed Software Materials to You.

If subsequently the Licensed Software Materials are (in whole or in part) destroyed, damaged or lost the Licensor will upon written request replace the same subject to You paying its then prevailing charges.

9 CONFIDENTIALITY

9.1 Neither Party shall use, copy, adapt, alter, disclose or part with possession of any information or data of the other Party which is disclosed or otherwise comes into its possession directly or indirectly as a result of this Agreement and which is of a confidential nature (“**Confidential Information**”) without the prior written consent of the disclosing Party except as strictly necessary to perform its obligations or exercise its rights under this Agreement.

9.2 The receiving Party undertakes not to disclose any Confidential Information of the disclosing Party to any third party other than employees, professional advisors and approved sub-contractors of the receiving Party on a “need to know” basis only and to whom disclosure is necessary for the proper performance of their duties under this Agreement.

9.3 The foregoing obligations shall not apply to Confidential Information that:

- 9.3.1 was known to the receiving Party prior to receipt from the

disclosing Party; or

9.3.2 is received from a third party without breach of any other confidentiality arrangements; or

9.3.3 is or becomes public knowledge other than by breach of this Clause or is independently developed by or for the receiving Party; or

9.3.4 is required to be disclosed by any applicable law or by order of any Court of competent jurisdiction or any government body, agency or regulatory body, provided that the receiving Party shall use all reasonable endeavours to give the other Party not less than two business days' written notice of the disclosure.

9.4 The Parties shall ensure that their respective employees, agents and sub-contractors comply with the provisions of this Clause and are bound by terms and conditions of use and non-disclosure at least as onerous as those contained in this Clause.

9.5 The obligations in this Clause shall continue in force notwithstanding termination of this Agreement for any reason.

9.6 If this Agreement is terminated, the receiving Party shall return or destroy at the request of the disclosing Party all Confidential Information of the disclosing Party.

10 TERMINATION

10.1 This Agreement may be terminated:

10.1.1 by either Party upon giving not less than sixty (60) days written notice to the other;

10.1.2 forthwith by either Party upon giving written notice to the other if the other commits any material breach of this Agreement and which (in the case of a breach capable of remedy) shall not have been remedied within thirty (30) days of a written request to remedy the same (and non-payments of sums when due to the Licensor shall be a material breach);

10.1.3 forthwith by either Party upon giving written notice to the other Party if the other Party makes or proposes to make any arrangement or composition with its creditors or has a receiver, administrative receiver, administrator, liquidator, manager or similar officer appointed in respect of all or any part of its assets or passes a resolution for winding-up (otherwise than for the purpose of a solvent amalgamation or reconstruction where the resulting entity assumes all of the obligations of the relevant party under this Agreement), or (in the case of an individual) commits any act of bankruptcy or dies, or (in the case of a partnership) is dissolved, or undergoes or suffers any analogous acts or proceedings under any foreign law;

10.1.4 if the other Party shall commit any act of bankruptcy, shall have a receiving order made against it, shall make or negotiate for any composition or arrangement with or assignment for the benefit of its creditors or if the other party being a body corporate, shall present a petition or have a petition presented by a creditor for its winding up or shall enter into any liquidation (other than for the purpose of reconstruction or amalgamation), shall call any meeting of its creditors, shall have a receiver of all or any of its undertakings or assets appointed, shall be deemed by virtue of section 123 of the Insolvency Act 1986 to be unable to pay its debts, or shall cease to carry on business; or

10.1.5 forthwith by either Party upon giving written notice to the other if the other shall cease to carry on its business or substantially the whole of its business.

10.2 Any termination of this Agreement (however occasioned) shall not operate so as to affect any accrued rights or liabilities of either Party.

10.3 Within fourteen (14) days of the termination of this Agreement (howsoever and by whomsoever occasioned) You shall return or destroy (as the Licensor shall instruct) all copies of the Licensed Software Materials in its possession and a duly authorised officer of You shall

certify in writing to the Licensor that You has complied with such obligation.

11 **FORCE MAJEURE**

11.1 Neither Party shall be liable to the other Party for any delay or non-performance of its obligations under this Agreement to the extent that its performance is interrupted or prevented by Force Majeure.

11.2 Such delay or failure shall not constitute a breach of this Agreement and the time for performance shall be extended by a period equivalent to that during which performance is so prevented provided that if such delay or failure persists for sixty (60) days or more, the Party not affected may, at its option and if it is reasonable for it to do so, terminate this Agreement by giving fourteen (14) days written notice to the other Party.

12 **WAIVER**

Any failure or delay on the part of either Party to exercise any power or right under this Agreement shall not operate as a waiver of it, nor shall any single or partial exercise of any such right or power preclude any other or further exercise of the right or power. Any of the rights and remedies of either Party under this Agreement may at any time be enforced separately or concurrently with any other rights and remedies, whether under this Agreement or arising by operation of law with the effect that the rights and remedies are cumulative and not exclusive of each other.

13 **NOTICES**

13.1 Any notices required to be given under this Agreement shall be in writing and delivered personally or by first class post or transmitted by facsimile to the Parties as set out below:

13.1.1 The Licensor:

Address: Logicube, Inc.
19755 Nordhoff Place
Chatsworth, CA 91311 USA

For attention of: COO

13.1.2 You:

to the address or facsimile number that You provided for Your purchase of the Software.

13.2 Any notice served by:

13.2.1 personal delivery, shall be deemed served at the time of delivery;

13.2.2 first class post, shall be deemed served at the start of the fifth business day after posting; and

13.2.3 facsimile, shall be deemed served on the day of transmission (or the next following business day if transmitted outside the Party's normal working hours) provided that the sender shall have received a transmission report indicating that all the pages of the notice have been transmitted to the correct facsimile number.

13.3 Any Party may change any details of its address or facsimile number by notice in the manner described above.

14 **SEVERABILITY**

If any term or provision of this Agreement or its application to any Party or circumstances shall, to any extent, be invalid or unenforceable, the remainder of this Agreement or the application of the term or provision to any other Party or circumstances, other than those as to which it is already invalid or unenforceable, shall not be affected, and each term and provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law. The Parties shall negotiate in good faith to replace any invalid or unenforceable provisions by substitute provisions.

15 **ENTIRE AGREEMENT**

15.1 This Agreement and the Contract constitute the entire agreement

between the Parties with respect to the subject matter hereof and supersede and invalidate all prior oral or written communications, understandings, representations or warranties relating to the subject matter hereof.

15.2 Each Party warrants to the other that it has not relied on any such communications, understandings, representations or warranties in entering into this Agreement.

15.3 Notwithstanding anything contained herein to the contrary, the provisions of Clauses 4, 7, 9 and any other Clauses which are intended to survive termination shall survive termination of the Agreement and shall continue in full force and effect thereafter.

16 **ASSIGNMENT/SUB-CONTRACTING/AGENCY**

16.1 You shall not be entitled to assign, sub-contract or otherwise transfer your rights or obligations under this Agreement whether in whole or in part without the Licensor's prior written consent.

16.2 The Licensor shall be entitled to assign its rights hereunder (in whole or in part) to any person, partnership or company.

16.3 This Agreement shall be binding upon and inure for the benefit of the Parties and their respective permitted successors and assigns.

17 **THIRD PARTY RIGHTS**

A person who is not a Party to this Agreement has no rights under the Contracts (Rights of Third Parties) Act 1999 to enforce any term of this Agreement but this does not affect any right or remedy of a third party which exists or is available apart from that Act.

18 **PUBLICITY**

The Parties agree to keep confidential the terms of this Agreement, and neither Party shall make any announcement in relation to this Agreement or otherwise publicise its existence or its contents or use or refer to the name, trade mark or trade name of the other Party in any disclosure without the prior written consent of the other Party such consent not to be unreasonably withheld or delayed. A Party shall be entitled to withhold such consent and shall be under no obligation to provide any explanation for such action.

19 **AMENDMENTS**

No amendment to this Agreement whether oral or written shall be binding on either Party unless in writing and signed on behalf of the Parties.

20 **GOVERNING LAW AND JURISDICTION**

20.1 This Agreement shall be governed by and construed in accordance with English law.

20.2 It is irrevocably agreed that the English courts shall have non-exclusive jurisdiction as regards any claim or matter arising out of or in connection with this Agreement.

21 **NO PARTNERSHIP/AGENCY**

Nothing in this Agreement is intended to or shall operate to create a partnership or joint venture of any kind between the Parties, or to authorise either Party to act as agent for the other.

22 **THIRD PARTY SOFTWARE**

22.1 CellDEK software uses libraries and other components from the LibUSB-Win32 project.

The library is distributed under the terms of the GNU Lesser General Public License (LGPL).

The other components are distributed under the terms of the GNU General Public License (GPL).

These licenses are available to read at the LibUSB-Win32 project home-page www.libusb-win32.sourceforge.net.

22.2.1 The End User License is provided as a paper license along with the CellDEK device. By using the Software You agree to be bound by the terms of the End User License Agreement.

Additional copies of this license are also available from Logicube.

CellDEK Software License - US

THIS AGREEMENT shall be binding on installation of the Software and is by and between **LOGICUBE, INC.** ("Licensor") and the End User ("You").

1. Grant of License. So long as You shall be in compliance with the terms hereof, You shall have a limited, perpetual, non-exclusive and non-transferable license ("License") to use the Software solely in the course of lawfully operating the device with which the Software is integrated, and for no other purpose. You are also granted a license to use the Microsoft and related software contained within the PC embedded in the CellDEK device and by using such software You agree to be bound by the terms of the End User License agreement, a copy of which is provided to You with the device. Additional copies of the End User License are also available from Logicube.

2. Title. No title or ownership in the Software is transferred to You. Title to all applicable rights in patents, copyrights, trademarks and trade secrets in the Software shall remain in Licensor. Software licensed hereunder is property of Licensor, and You shall be bound by and observe such nature thereof as herein provided. You shall take appropriate action by instruction to and agreement with its employees, agents, consultants or any other end users who are permitted access to the Software to fulfill its obligations hereunder. Without limiting the foregoing, You shall ensure that any end user license agreement provided with the Software is brought to the reasonable attention of all such end users. You shall not provide, or otherwise make available, the Software or copies thereof to any third party. All ownership rights to any developments or improvements to the Software made by You shall belong solely to Licensor.

3. Copying.

(a) You shall be entitled to make one copy the Software for back-up and archival purposes.

You shall include in each such copy the Licensor's copyright notice(s) and trademark(s).

(b) In no event shall You be entitled to remove or tamper with any such proprietary notices contained in the Software.

(c) Software shall not be reverse compiled, disassembled, reverse assembled, or otherwise reverse engineered. All rights in or to the Software not expressly granted to You under

this Agreement are retained by Licensor.

4. Warranty.

(a) Subsection 4(b) hereof provides Licensor's twelve month limited warranty for the Software.

(b) Licensor warrants that for a period of twelve (12) months from installation of the Software, the Software will perform in accordance with the Software documentation. In the event the Software does not perform in accordance with such documentation, then during such twelve month period, Licensor shall at its option: (i) correct any variance between the Software performance and its documentation; or (ii) replace the Software media. The foregoing shall be Your sole and exclusive remedy with respect to the Software or otherwise hereunder.

EXCEPT AS WARRANTED BY THE PRECEDING THREE SENTENCES, THE SOFTWARE IS LICENSED AS IS, AND NO WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR STATUTORY, WHETHER IN RELATION TO MERCHANTABILITY, HIDDEN DEFECTS, FITNESS FOR PARTICULAR PURPOSE, COURSE OF PERFORMANCE, COURSE OF DEALING, USAGE OF TRADE, NONINFRINGEMENT, THAT THE SOFTWARE'S OPERATION SHALL BE ERROR FREE OR UNINTERRUPTED, OR OTHERWISE IS GIVEN BY LICENSOR TO YOU OR ANY OTHER PARTY. LICENSOR SHALL NOT UNDER ANY CIRCUMSTANCES BE RESPONSIBLE FOR ANY LOSSES OR DAMAGES, DIRECT, INDIRECT, SPECIAL, ORDINARY, EXEMPLARY, CONSEQUENTIAL OR OTHERWISE (INCLUDING, BUT NOT LIMITED TO, LOSS OF DATA, LOSS OF REVENUE, PROFIT OR USE OR COST OF CAPITAL OR OF SUBSTITUTE USE OF PERFORMANCE), ARISING OUT OF OR RELATED IN ANY WAY TO THE TRANSACTIONS CONTEMPLATED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. UNDER NO CIRCUMSTANCES SHALL LICENSOR'S TOTAL LIABILITY OF ALL KINDS ARISING OUT OF OR RELATED TO THIS AGREEMENT (INCLUDING BUT NOT LIMITED TO ANY WARRANTY OR SUPPORT-RELATED CLAIMS HEREUNDER), REGARDLESS OF WHETHER ANY ACTION OR CLAIM IS BASED ON CONTRACT, STRICT LIABILITY, TORT OR OTHERWISE, EXCEED THE TOTAL AMOUNT PAID BY YOU FOR THE DEVICE WITH WHICH THE SOFTWARE IS PROVIDED (DETERMINED AS OF THE DATE OF ANY FINAL JUDGMENT IN SUCH ACTION).

(c) This limited warranty shall be valid and remain in effect only if: (i) the Software is used

and maintained by You as directed by all applicable documentation; (ii) You promptly notify Licensor in writing of the claim and is able to reproduce it; (iv) the Software has not in any way been modified and You have not installed any other hardware or software affecting the Software; (v) the claim is unrelated to the failure by You to follow the most current instructions issued by Licensor or its authorized reseller; (vi) the claim is unrelated to the negligence, accident or act of You or any third party; (vii) You provide reasonable access to the Software; (viii) there has been no operation of the Software under conditions more severe than those for which the Software was designed; (ix) the claim is unrelated to force majeure; (x) the claim is unrelated to operator error or to any software, firmware, peripheral or communication device; and (xi) where authorized Licensor updates are provided to You, the Software incorporates all such updates within ninety (90) days of each update being provided or otherwise made available. In the event it is determined that any warranty claim reported by You falls within any of the foregoing exceptions, You shall pay for services at then current rates and charges.

(d) Nothing herein shall obligate Licensor or its authorized reseller to improve or otherwise support any Software licensed hereunder. Without prejudice to the foregoing, all support, enhancements, modifications and upgrades delivered to You, if any, shall be subject to the same protections, restrictions, limited warranty, and limitations on copying and tampering as set forth elsewhere herein.

5. Component Items. In the event that Licensor or its authorized reseller shall deliver to You any individual components apart from the Software specifically licensed hereunder, You shall not use or attempt to use any such component outside or independent of the parameter of this License, and each such component shall be subject to the same rules and restrictions binding on You to which the Software is subject, whether under this Agreement or otherwise.

6. Breach. In the event that either party hereto should breach any of the material terms and conditions of this Agreement, the aggrieved party shall notify the other party. The offending party shall thereafter have 30 days to correct the identified deficiency. In the event such deficiency is not rectified to the satisfaction of the aggrieved party, then the aggrieved party shall be entitled to declare this Agreement null, void and of no further force and effect, and all

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